

Start	840	End	1203
GI	none	Score	74
Exons	840..986, 840..1199, 841..1074, 1099..1203		

Seq. No.	44866	Seq. ID	OJ000251_49.0410.C19
Gene No.	94628	Strand	-
Start	9626	End	12682
Name	OJ000251_49.0410.C19.o4.gs	Method	GENSCAN
Start	9626	End	12602
GI	none	Score	.66
Exons	9626..12309, 12395..12602		

Seq. No.	44866	Seq. ID	OJ000251_49.0410.C19
Gene No.	94628	Strand	-
Start	9626	End	12682
Name	OJ000251_49.0410.C19.o3.np	Method	AAT/NAP
Start	9629	End	12682
GI	4680179	Score	5212
Exons	9629..12682		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	44866	Seq. ID	OJ000251_49.0410.C19
Gene No.	94628	Strand	-
Start	9626	End	12682
Name	OJ000251_49.0410.C19.o6.tw	Method	TBLASTX:Wheat
Start	9639	End	10007
GI	none	Score	35
Exons	9639..9692, 9674..10006, 9695..9856, 9798..9914, 9899..9979, 9936..10007		

Seq. No.	44866	Seq. ID	OJ000251_49.0410.C19
Gene No.	94628	Strand	-
Start	9626	End	12682
Name	OJ000251_49.0410.C19.o7.tm	Method	TBLASTX:Maize
Start	9653	End	9844
GI	none	Score	192
Exons	9653..9844		

Seq. No.	44866	Seq. ID	OJ000251_49.0410.C19
Gene No.	94628	Strand	-
Start	9626	End	12682
Name	OJ000251_49.0410.C19.o1.tm	Method	TBLASTX:Maize
Start	9854	End	10453
GI	none	Score	243
Exons	9854..10294, 9867..10292, 10292..10453, 10299..10445		

Seq. No.	44866	Seq. ID	OJ000251_49.0410.C19
Gene No.	94628	Strand	-
Start	9626	End	12682
Name	OJ000251_49.0410.C19.o1.tw	Method	TBLASTX:Wheat
Start	10007	End	10633
GI	none	Score	366
Exons	10007..10633, 10008..10631		

Seq. No.	44866	Seq. ID	OJ000251_49.0410.C19
Gene No.	94628	Strand	-
Start	9626	End	12682

Name	OJ000251_49.0410.C19.o4.tm	Method	TBLASTX:Maize
Start	10502	End	10793
GI	none	Score	221
Exons	10502..10792, 10506..10793		
Seq. No.	44866	Seq. ID	OJ000251_49.0410.C19
Gene No.	94628	Strand	-
Start	9626	End	12682
Name	OJ000251_49.0410.C19.o2.ts	Method	TBLASTX:Soybean
Start	10592	End	10852
GI	none	Score	149
Exons	10592..10852, 10593..10847		
Seq. No.	44866	Seq. ID	OJ000251_49.0410.C19
Gene No.	94628	Strand	-
Start	9626	End	12682
Name	OJ000251_49.0410.C19.o3.tw	Method	TBLASTX:Wheat
Start	10640	End	11120
GI	none	Score	236
Exons	10640..11119, 10641..10895, 10646..11086, 10671..11120		
Seq. No.	44866	Seq. ID	OJ000251_49.0410.C19
Gene No.	94628	Strand	-
Start	9626	End	12682
Name	OJ000251_49.0410.C19.o2.tw	Method	TBLASTX:Wheat
Start	11123	End	11632
GI	none	Score	236
Exons	11123..11632, 11207..11554, 11289..11600		
Seq. No.	44866	Seq. ID	OJ000251_49.0410.C19
Gene No.	94628	Strand	-
Start	9626	End	12682
Name	OJ000251_49.0410.C19.o2.tm	Method	TBLASTX:Maize
Start	11195	End	11560
GI	none	Score	156
Exons	11195..11506, 11202..11399, 11207..11560, 11292..11558		
Seq. No.	44866	Seq. ID	OJ000251_49.0410.C19
Gene No.	94628	Strand	-
Start	9626	End	12682
Name	OJ000251_49.0410.C19.o3.ts	Method	TBLASTX:Soybean
Start	11381	End	11626
GI	none	Score	199
Exons	11381..11626		
Seq. No.	44866	Seq. ID	OJ000251_49.0410.C19
Gene No.	94628	Strand	-
Start	9626	End	12682
Name	OJ000251_49.0410.C19.o3.tm	Method	TBLASTX:Maize
Start	11597	End	12097
GI	none	Score	99
Exons	11597..11932, 11715..11846, 11918..12097, 11957..12091		
Seq. No.	44866	Seq. ID	OJ000251_49.0410.C19
Gene No.	94628	Strand	-
Start	9626	End	12682
Name	OJ000251_49.0410.C19.o5.tw	Method	TBLASTX:Wheat



Start 11633  
GI none  
Exons 11633..11935, 11634..11915

End 11935  
Score 240

Seq. No. 44866  
Gene No. 94628  
Start 9626  
Name OJ000251\_49.0410.C19.o1.ts  
Start 11648  
GI none  
Exons 11648..12025, 11649..11912, 11963..12007, 12011..12043, 12012..12041

Seq. ID OJ000251\_49.0410.C19  
Strand -  
End 12682  
Method TBLASTX:Soybean  
End 12043  
Score 167

Seq. No. 44866  
Gene No. 94628  
Start 9626  
Name OJ000251\_49.0410.C19.o4.tw  
Start 11984  
GI none  
Exons 11984..12415, 12027..12362, 12358..12465

Seq. ID OJ000251\_49.0410.C19  
Strand -  
End 12682  
Method TBLASTX:Wheat  
End 12465  
Score 254

Seq. No. 44866  
Gene No. 94628  
Start 9626  
Name OJ000251\_49.0410.C19.o5.tm  
Start 12165  
GI none  
Exons 12165..12356, 12167..12409, 12379..12453

Seq. ID OJ000251\_49.0410.C19  
Strand -  
End 12682  
Method TBLASTX:Maize  
End 12453  
Score 166

Seq. No. 44867  
Gene No. 94629  
Start 573  
Name OJ000251\_49.0410.C20.o1.gs  
Start 573  
GI none  
Exons 573..597, 1141..1334

Seq. ID OJ000251\_49.0410.C20  
Strand +  
End 1334  
Method GENSCAN  
End 1334  
Score .65

Seq. No. 44868  
Gene No. 94630  
Start 95  
Name OJ000251\_49.0410.C21.o1.gs  
Start 95  
GI none  
Exons 95..350

Seq. ID OJ000251\_49.0410.C21  
Strand +  
End 350  
Method GENSCAN  
End 350  
Score .89

Seq. No. 44868  
Gene No. 94631  
Start 1  
Name OJ000251\_49.0410.C21.o1.np  
Start 1  
GI 6063554  
Exons 1..19, 76..278, 396..674, 2161..2181  
GI Descrip. (AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464). correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. ID OJ000251\_49.0410.C21  
Strand -  
End 2212  
Method AAT/NAP  
End 2181  
Score 228

Seq. No. 44868  
Seq. ID OJ000251\_49.0410.C21

Gene No.	94631	Strand	-
Start	1	End	2212
Name	OJ000251_49.0410.C21.o1.gp	Method	AAT/GAP
Start	1208	End	1440
GI	61605_1.R1084	Score	362
Exons	1208..1440		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-137 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		
Seq. No.	44868	Seq. ID	OJ000251_49.0410.C21
Gene No.	94631	Strand	-
Start	1	End	2212
Name	OJ000251_49.0410.C21.o2.gp	Method	AAT/GAP
Start	1208	End	2057
GI	4107138	Score	1106
Exons	1208..2057		
GI Descrip.	5852170/emb AL117265.1 OST17804 1.0e-149 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804		
Seq. No.	44868	Seq. ID	OJ000251_49.0410.C21
Gene No.	94631	Strand	-
Start	1	End	2212
Name	OJ000251_49.0410.C21.o2.np	Method	AAT/NAP
Start	1307	End	2114
GI	5852175	Score	85
Exons	1307..1340, 1978..2114		
GI Descrip.	(AL117265) zhb0005.1 [Oryza sativa]		
Seq. No.	44868	Seq. ID	OJ000251_49.0410.C21
Gene No.	94631	Strand	-
Start	1	End	2212
Name	OJ000251_49.0410.C21.o2.gs	Method	GENSCAN
Start	2069	End	2212
GI	none	Score	.57
Exons	2069..2212		
Seq. No.	44869	Seq. ID	OJ000251_49.0410.C22
Gene No.	94632	Strand	+
Start	432	End	3226
Name	OJ000251_49.0410.C22.o1.gs	Method	GENSCAN
Start	432	End	2817
GI	none	Score	.46
Exons	432..594, 1592..1711, 2518..2817		
Seq. No.	44869	Seq. ID	OJ000251_49.0410.C22
Gene No.	94632	Strand	+
Start	432	End	3226
Name	OJ000251_49.0410.C22.o1.np	Method	AAT/NAP
Start	1625	End	3226
GI	5257279	Score	1184
Exons	1625..2170, 2518..2760, 3208..3226		
GI Descrip.	(AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]		
Seq. No.	44870	Seq. ID	OJ000251_49.0410.C23
Gene No.	94633	Strand	+
Start	206	End	2563

Name	OJ000251_49.0410.C23.o1.gs	Method	GENSCAN
Start	206	End	2489
GI	none	Score	.74
Exons	206..259, 464..479, 1641..1959, 1965..2489		

Seq. No.	44870	Seq. ID	OJ000251_49.0410.C23
Gene No.	94633	Strand	+
Start	206	End	2563
Name	OJ000251_49.0410.C23.o2.np	Method	AAT/NAP
Start	1641	End	2563
GI	6721550	Score	165
Exons	1641..2069, 2108..2563		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib (AB013448)		

Seq. No.	44870	Seq. ID	OJ000251_49.0410.C23
Gene No.	94634	Strand	-
Start	963	End	2563
Name	OJ000251_49.0410.C23.o1.np	Method	AAT/NAP
Start	963	End	2563
GI	6539553	Score	218
Exons	963..1058, 1297..1503, 2436..2563		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi 6539590 dbj BAA88206.1  (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	44871	Seq. ID	OJ000251_49.0410.C24
Gene No.	94635	Strand	+
Start	6	End	6459
Name	OJ000251_49.0410.C24.o1.gs	Method	GENSCAN
Start	6	End	6459
GI	none	Score	.86
Exons	6..1067, 4407..4482, 4593..4820, 4912..5187, 6112..6253, 6375..6459		

Seq. No.	44871	Seq. ID	OJ000251_49.0410.C24
Gene No.	94635	Strand	+
Start	6	End	6459
Name	OJ000251_49.0410.C24.o1.np	Method	AAT/NAP
Start	2048	End	4522
GI	2429362	Score	101
Exons	2048..2067, 4053..4522		
GI Descrip.	(AF020261) proline rich protein [Santalum album]		

Seq. No.	44871	Seq. ID	OJ000251_49.0410.C24
Gene No.	94636	Strand	-
Start	5824	End	6829
Name	OJ000251_49.0410.C24.o2.np	Method	AAT/NAP
Start	5824	End	6829
GI	4567295	Score	293
Exons	5824..6448, 6754..6829		
GI Descrip.	(AC006918) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	44871	Seq. ID	OJ000251_49.0410.C24
Gene No.	94636	Strand	-
Start	5824	End	6829

Name	OJ000251_49.0410.C24.o1.tw	Method	TBLASTX:Wheat
Start	6009	End	6393
GI	none	Score	48
Exons	6009..6128, 6010..6087, 6083..6121, 6123..6212, 6123..6212, 6186..6275, 6191..6280, 6284..6358, 6357..6392, 6358..6393		

Seq. No.	44871	Seq. ID	OJ000251_49.0410.C24
Gene No.	94636	Strand	-
Start	5824	End	6829
Name	OJ000251_49.0410.C24.o1.ts	Method	TBLASTX:Soybean
Start	6012	End	6397
GI	none	Score	55
Exons	6012..6128, 6074..6121, 6123..6176, 6194..6280, 6207..6278, 6296..6334, 6296..6358, 6341..6397		

Seq. No.	44872	Seq. ID	OJ000251_49.0410.C25
Gene No.	94637	Strand	-
Start	1	End	3882
Name	OJ000251_49.0410.C25.o1.np	Method	AAT/NAP
Start	1	End	3882
GI	6691191	Score	1664
Exons	1..23, 292..2246, 3863..3882		
GI Descrip.	(AC007534) F7F22.15 [Arabidopsis thaliana]		

Seq. No.	44872	Seq. ID	OJ000251_49.0410.C25
Gene No.	94637	Strand	-
Start	1	End	3882
Name	OJ000251_49.0410.C25.o1.ts	Method	TBLASTX:Soybean
Start	308	End	661
GI	none	Score	58
Exons	308..661, 315..368, 405..632		

Seq. No.	44872	Seq. ID	OJ000251_49.0410.C25
Gene No.	94637	Strand	-
Start	1	End	3882
Name	OJ000251_49.0410.C25.o1.gs	Method	GENSCAN
Start	329	End	2576
GI	none	Score	.68
Exons	329..721, 1249..1481, 2252..2393, 2513..2576		

Seq. No.	44872	Seq. ID	OJ000251_49.0410.C25
Gene No.	94637	Strand	-
Start	1	End	3882
Name	OJ000251_49.0410.C25.o3.tw	Method	TBLASTX:Wheat
Start	335	End	629
GI	none	Score	132
Exons	335..628, 345..629		

Seq. No.	44872	Seq. ID	OJ000251_49.0410.C25
Gene No.	94637	Strand	-
Start	1	End	3882
Name	OJ000251_49.0410.C25.o1.tc	Method	TBLASTX:Cress
Start	656	End	960
GI	none	Score	67
Exons	656..823, 705..806, 823..960, 849..917		

Seq. No.	44872	Seq. ID	OJ000251_49.0410.C25
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Gene No.	94637	Strand	-
Start	1	End	3882
Name	OJ000251_49.0410.C25.o4.tw	Method	TBLASTX:Wheat
Start	752	End	1219
GI	none	Score	50
Exons	752..820, 826..957, 1023..1130, 1039..1131, 1124..1201, 1125..1199, 1148..1219		

Seq. No.	44872	Seq. ID	OJ000251_49.0410.C25
Gene No.	94637	Strand	-
Start	1	End	3882
Name	OJ000251_49.0410.C25.o2.np	Method	AAT/NAP
Start	980	End	2387
GI	5852181	Score	130
Exons	980..1006, 2236..2387		
GI Descrip.	(AL117265) zhb0011.1 [Oryza sativa]		

Seq. No.	44872	Seq. ID	OJ000251_49.0410.C25
Gene No.	94637	Strand	-
Start	1	End	3882
Name	OJ000251_49.0410.C25.o1.tw	Method	TBLASTX:Wheat
Start	1233	End	1621
GI	none	Score	126
Exons	1233..1460, 1234..1488, 1246..1497, 1361..1498, 1493..1621, 1554..1613		

Seq. No.	44872	Seq. ID	OJ000251_49.0410.C25
Gene No.	94637	Strand	-
Start	1	End	3882
Name	OJ000251_49.0410.C25.o1.tm	Method	TBLASTX:Maize
Start	1258	End	1795
GI	none	Score	64
Exons	1258..1368, 1393..1494, 1496..1795, 1557..1703		

Seq. No.	44872	Seq. ID	OJ000251_49.0410.C25
Gene No.	94637	Strand	-
Start	1	End	3882
Name	OJ000251_49.0410.C25.o2.ts	Method	TBLASTX:Soybean
Start	1556	End	1807
GI	none	Score	142
Exons	1556..1762, 1563..1778, 1748..1807		

Seq. No.	44872	Seq. ID	OJ000251_49.0410.C25
Gene No.	94637	Strand	-
Start	1	End	3882
Name	OJ000251_49.0410.C25.o2.tw	Method	TBLASTX:Wheat
Start	1622	End	1932
GI	none	Score	98
Exons	1622..1834, 1622..1846, 1623..1835, 1855..1932, 1866..1913, 1883..1930		

Seq. No.	44872	Seq. ID	OJ000251_49.0410.C25
Gene No.	94637	Strand	-
Start	1	End	3882
Name	OJ000251_49.0410.C25.o2.tm	Method	TBLASTX:Maize
Start	1882	End	2145
GI	none	Score	183

Exons 1882..2145

Seq. No.	44872	Seq. ID	OJ000251_49.0410.C25
Gene No.	94637	Strand	-
Start	1	End	3882
Name	OJ000251_49.0410.C25.o3.ts	Method	TBLASTX:Soybean
Start	2008	End	2142
GI	none	Score	76
Exons	2008..2133, 2008..2142		

Seq. No.	44872	Seq. ID	OJ000251_49.0410.C25
Gene No.	94637	Strand	-
Start	1	End	3882
Name	OJ000251_49.0410.C25.o5.tw	Method	TBLASTX:Wheat
Start	2029	End	2248
GI	none	Score	75
Exons	2029..2220, 2188..2235, 2192..2248		

Seq. No.	44873	Seq. ID	OJ000251_49.0410.C26
Gene No.	94638	Strand	-
Start	1	End	2918
Name	OJ000251_49.0410.C26.o1.np	Method	AAT/NAP
Start	1	End	2918
GI	7248394	Score	2563
Exons	1..26, 294..432, 869..1937, 2208..2918		
GI Descrip.	(AP001389) ESTs C97394(C60113), AU075824(R0165), D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15011 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	44873	Seq. ID	OJ000251_49.0410.C26
Gene No.	94638	Strand	-
Start	1	End	2918
Name	OJ000251_49.0410.C26.o2.tw	Method	TBLASTX:Wheat
Start	554	End	988
GI	none	Score	45
Exons	554..838, 639..740, 771..845, 899..988		

Seq. No.	44873	Seq. ID	OJ000251_49.0410.C26
Gene No.	94638	Strand	-
Start	1	End	2918
Name	OJ000251_49.0410.C26.o1.ts	Method	TBLASTX:Soybean
Start	611	End	1034
GI	none	Score	52
Exons	611..859, 633..734, 774..848, 896..1033, 918..1034		

Seq. No.	44873	Seq. ID	OJ000251_49.0410.C26
Gene No.	94638	Strand	-
Start	1	End	2918
Name	OJ000251_49.0410.C26.o2.tm	Method	TBLASTX:Maize
Start	1340	End	1752
GI	none	Score	146
Exons	1340..1594, 1341..1526, 1530..1751, 1547..1681, 1549..1752, 1567..1752		

Seq. No.	44873	Seq. ID	OJ000251_49.0410.C26
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Gene No.	94638	Strand	-
Start	1	End	2918
Name	OJ000251_49.0410.C26.o1.tw	Method	TBLASTX:Wheat
Start	1669	End	2076
GI	none	Score	169
Exons	1669..2076, 1671..1958, 1720..2061, 1736..2071		

Seq. No.	44873	Seq. ID	OJ000251_49.0410.C26
Gene No.	94638	Strand	-
Start	1	End	2918
Name	OJ000251_49.0410.C26.o1.tm	Method	TBLASTX:Maize
Start	1754	End	2016
GI	none	Score	264
Exons	1754..2011, 1756..2016, 1759..2013		

Seq. No.	44873	Seq. ID	OJ000251_49.0410.C26
Gene No.	94638	Strand	-
Start	1	End	2918
Name	OJ000251_49.0410.C26.o2.ts	Method	TBLASTX:Soybean
Start	1870	End	2238
GI	none	Score	143
Exons	1870..2004, 2020..2238		

Seq. No.	44874	Seq. ID	OJ000251_49.0410.C29
Gene No.	94639	Strand	-
Start	476	End	1317
Name	OJ000251_49.0410.C29.o1.gs	Method	GENSCAN
Start	476	End	1317
GI	none	Score	.51
Exons	476..1317		

Seq. No.	44874	Seq. ID	OJ000251_49.0410.C29
Gene No.	94640	Strand	-
Start	2707	End	3045
Name	OJ000251_49.0410.C29.o2.gs	Method	GENSCAN
Start	2707	End	3045
GI	none	Score	.92
Exons	2707..2851, 2990..3045		

Seq. No.	44875	Seq. ID	OJ000251_49.0410.C32
Gene No.	94641	Strand	+
Start	823	End	1550
Name	OJ000251_49.0410.C32.o1.gs	Method	GENSCAN
Start	823	End	1550
GI	none	Score	.73
Exons	823..938, 1292..1550		

Seq. No.	44876	Seq. ID	OJ000251_49.0410.C33
Gene No.	94642	Strand	+
Start	1	End	1291
Name	OJ000251_49.0410.C33.o1.np	Method	AAT/NAP
Start	1	End	1291
GI	7248404	Score	147
Exons	1..79, 727..901, 1240..1291		
GI Descrip.	(AP001389) ESTs AU082409(E30736),C74252(E30736) correspond to a region of the predicted gene.~hypothetical protein [Oryza sativa]		

Seq. No. 44876  
 Gene No. 94642  
 Start 1  
 Name OJ000251\_49.0410.C33.o1.gs  
 Start 277  
 GI none  
 Exons 277..425

Seq. ID OJ000251\_49.0410.C33  
 Strand +  
 End 1291  
 Method GENSCAN  
 End 425  
 Score .62

Seq. No. 44876  
 Gene No. 94643  
 Start 928  
 Name OJ000251\_49.0410.C33.o2.gs  
 Start 928  
 GI none  
 Exons 928..1227

Seq. ID OJ000251\_49.0410.C33  
 Strand -  
 End 1291  
 Method GENSCAN  
 End 1227  
 Score .67

Seq. No. 44876  
 Gene No. 94643  
 Start 928  
 Name OJ000251\_49.0410.C33.o2.np  
 Start 931  
 GI 7248403  
 Exons 931..1291

Seq. ID OJ000251\_49.0410.C33  
 Strand -  
 End 1291  
 Method AAT/NAP  
 End 1291  
 Score 515

GI Descrip. (AP001389) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F20D10; hypothetical protein (AL035538) [Oryza sativa]

Seq. No. 44876  
 Gene No. 94643  
 Start 928  
 Name OJ000251\_49.0410.C33.o1.tm  
 Start 952  
 GI none  
 Exons 952..1290, 953..1087, 1144..1290

Seq. ID OJ000251\_49.0410.C33  
 Strand -  
 End 1291  
 Method TBLASTX:Maize  
 End 1290  
 Score 51

Seq. No. 44876  
 Gene No. 94643  
 Start 928  
 Name OJ000251\_49.0410.C33.o1.ts  
 Start 958  
 GI none  
 Exons 958..1290

Seq. ID OJ000251\_49.0410.C33  
 Strand -  
 End 1291  
 Method TBLASTX:Soybean  
 End 1290  
 Score 219

Seq. No. 44876  
 Gene No. 94643  
 Start 928  
 Name OJ000251\_49.0410.C33.o1.tc  
 Start 985  
 GI none  
 Exons 985..1290

Seq. ID OJ000251\_49.0410.C33  
 Strand -  
 End 1291  
 Method TBLASTX:Cress  
 End 1290  
 Score 212

Seq. No. 44877  
 Gene No. 94644  
 Start 414  
 Name OJ000321\_31.0411.C1.o1.gp  
 Start 414  
 GI none

Seq. ID OJ000321\_31.0411.C1  
 Strand +  
 End 621  
 Method AAT/GAP  
 End 621  
 Score 378



Exons 414..621

Seq. No.	44877	Seq. ID	OJ000321_31.0411.C1
Gene No.	94645	Strand	+
Start	4052	End	10807
Name	OJ000321_31.0411.C1.o2.gs	Method	GENSCAN
Start	4052	End	10807
GI	none	Score	.56
Exons	4052..5474, 6241..6277, 6378..6526, 8382..10075, 10151..10807		

Seq. No.	44877	Seq. ID	OJ000321_31.0411.C1
Gene No.	94645	Strand	+
Start	4052	End	10807
Name	OJ000321_31.0411.C1.o1.np	Method	AAT/NAP
Start	8386	End	10803
GI	7228457	Score	1591
Exons	8386..9959, 10014..10803		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	44877	Seq. ID	OJ000321_31.0411.C1
Gene No.	94646	Strand	+
Start	12305	End	14059
Name	OJ000321_31.0411.C1.o3.np	Method	AAT/NAP
Start	12305	End	14059
GI	7523517	Score	166
Exons	12305..12596, 13981..14059		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	44877	Seq. ID	OJ000321_31.0411.C1
Gene No.	94647	Strand	+
Start	15535	End	15655
Name	OJ000321_31.0411.C1.o3.gp	Method	AAT/GAP
Start	15535	End	15655
GI	LIB3431-047-P1-K1-D10	Score	187
Exons	15535..15655		
GI Descrip.	'4512667/gb AAD21721.1  8.0e-22 (AC006931) putative MAP kinase [Arabidopsis thaliana]'		

Seq. No.	44877	Seq. ID	OJ000321_31.0411.C1
Gene No.	94648	Strand	-
Start	10107	End	14389
Name	OJ000321_31.0411.C1.o2.np	Method	AAT/NAP
Start	10107	End	11855
GI	6721558	Score	226
Exons	10107..10322, 10918..11055, 11756..11855		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi 6815083 dbj BAA90369.1  (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	44877	Seq. ID	OJ000321_31.0411.C1
Gene No.	94648	Strand	-
Start	10107	End	14389
Name	OJ000321_31.0411.C1.o4.np	Method	AAT/NAP
Start	11067	End	14389
GI	6721512	Score	70

Exons 11067..11098, 12666..12774, 14369..14389  
GI Descrip. (AP001072) hypothetical protein [Oryza sativa]

Seq. No.	44877	Seq. ID	OJ000321_31.0411.C1
Gene No.	94649	Strand	-
Start	14766	End	14966
Name	OJ000321_31.0411.C1.o3.tw	Method	TBLASTX:Wheat
Start	8435	End	8827
GI	none	Score	58
Exons	8435..8479, 8480..8593, 8491..8541, 8552..8827, 8599..8826		

Seq. No.	44877	Seq. ID	OJ000321_31.0411.C1
Gene No.	94649	Strand	-
Start	14766	End	14966
Name	OJ000321_31.0411.C1.o2.tm	Method	TBLASTX:Maize
Start	8474	End	8713
GI	none	Score	203
Exons	8474..8713		

Seq. No.	44877	Seq. ID	OJ000321_31.0411.C1
Gene No.	94649	Strand	-
Start	14766	End	14966
Name	OJ000321_31.0411.C1.o2.tw	Method	TBLASTX:Wheat
Start	9458	End	9913
GI	none	Score	148
Exons	9458..9640, 9466..9639, 9677..9913, 9679..9795, 9683..9898, 9838..9903		

Seq. No.	44877	Seq. ID	OJ000321_31.0411.C1
Gene No.	94649	Strand	-
Start	14766	End	14966
Name	OJ000321_31.0411.C1.o1.tw	Method	TBLASTX:Wheat
Start	10105	End	10561
GI	none	Score	541
Exons	10105..10560, 10106..10561		

Seq. No.	44877	Seq. ID	OJ000321_31.0411.C1
Gene No.	94649	Strand	-
Start	14766	End	14966
Name	OJ000321_31.0411.C1.o1.ts	Method	TBLASTX:Soybean
Start	10145	End	10510
GI	none	Score	105
Exons	10145..10369, 10376..10510		

Seq. No.	44877	Seq. ID	OJ000321_31.0411.C1
Gene No.	94649	Strand	-
Start	14766	End	14966
Name	OJ000321_31.0411.C1.o1.tm	Method	TBLASTX:Maize
Start	10235	End	10591
GI	none	Score	411
Exons	10235..10591, 10289..10537, 10297..10590		

Seq. No.	44877	Seq. ID	OJ000321_31.0411.C1
Gene No.	94649	Strand	-
Start	14766	End	14966
Name	OJ000321_31.0411.C1.o4.tw	Method	TBLASTX:Wheat
Start	10562	End	10798

GI	none	Score	247
Exons	10562..10798		
Seq. No.	44877	Seq. ID	OJ000321_31.0411.C1
Gene No.	94649	Strand	-
Start	14766	End	14966
Name	OJ000321_31.0411.C1.o2.gp	Method	AAT/GAP
Start	14766	End	14966
GI	2227_1.R1084	Score	301
Exons	14766..14966		
GI Descrip.	'6006355/dbj AP000559.1 AP000559 2.0e-56 Oryza sativa genomic DNA, chromosome 6, clone:P0493C11'		

Seq. No.	44878	Seq. ID	OJ000321_31.0411.C2
Gene No.	94650	Strand	+
Start	6762	End	6902
Name	OJ000321_31.0411.C2.o3.gp	Method	AAT/GAP
Start	6762	End	6902
GI	none	Score	197
Exons	6762..6902		

Seq. No.	44878	Seq. ID	OJ000321_31.0411.C2
Gene No.	94651	Strand	-
Start	1	End	255
Name	OJ000321_31.0411.C2.o1.gp	Method	AAT/GAP
Start	1	End	255
GI	none	Score	440
Exons	1..255		

Seq. No.	44878	Seq. ID	OJ000321_31.0411.C2
Gene No.	94652	Strand	-
Start	262	End	417
Name	OJ000321_31.0411.C2.o1.gs	Method	GENSCAN
Start	262	End	417
GI	none	Score	.78
Exons	262..417		

Seq. No.	44878	Seq. ID	OJ000321_31.0411.C2
Gene No.	94653	Strand	-
Start	4852	End	6869
Name	OJ000321_31.0411.C2.o2.gp	Method	AAT/GAP
Start	4480	End	4939
GI	none	Score	855
Exons	4480..4939		

Seq. No.	44878	Seq. ID	OJ000321_31.0411.C2
Gene No.	94653	Strand	-
Start	4852	End	6869
Name	OJ000321_31.0411.C2.o2.gs	Method	GENSCAN
Start	4852	End	6869
GI	none	Score	.92
Exons	4852..5583, 6765..6869		

Seq. No.	44879	Seq. ID	OJ000321_31.0411.C3
Gene No.	94654	Strand	+
Start	423	End	861
Name	OJ000321_31.0411.C3.o1.gs	Method	GENSCAN

Start 423  
 GI none  
 Exons 423..734, 766..861

End 861  
 Score .44

Seq. No. 44879  
 Gene No. 94655  
 Start 4525  
 Name OJ000321\_31.0411.C3.o2.gp  
 Start 4525  
 GI 964\_1.R1084  
 Exons 4525..4582, 4691..4746, 5978..7164  
 GI Descrip. '3850816/emb|CAA77132.1| 1.0e-109 (Y18348) U2 snRNP auxiliary factor, small subunit [Oryza sativa]'

Seq. ID OJ000321\_31.0411.C3  
 Strand +  
 End 7164  
 Method AAT/GAP  
 End 7164  
 Score 2474

Seq. No. 44879  
 Gene No. 94655  
 Start 4525  
 Name OJ000321\_31.0411.C3.o4.gs  
 Start 5840  
 GI none  
 Exons 5840..5858, 6228..6922

Seq. ID OJ000321\_31.0411.C3  
 Strand +  
 End 7164  
 Method GENSCAN  
 End 6922  
 Score .91

Seq. No. 44879  
 Gene No. 94655  
 Start 4525  
 Name OJ000321\_31.0411.C3.o1.np  
 Start 6009  
 GI 3850816  
 Exons 6009..6910  
 GI Descrip. (Y18348) U2 snRNP auxiliary factor, small subunit [Oryza sativa]

Seq. ID OJ000321\_31.0411.C3  
 Strand +  
 End 7164  
 Method AAT/NAP  
 End 6910  
 Score 1630

Seq. No. 44879  
 Gene No. 94656  
 Start 462  
 Name OJ000321\_31.0411.C3.o1.gp  
 Start 462  
 GI none  
 Exons 462..647

Seq. ID OJ000321\_31.0411.C3  
 Strand -  
 End 647  
 Method AAT/GAP  
 End 647  
 Score 341

Seq. No. 44879  
 Gene No. 94657  
 Start 1663  
 Name OJ000321\_31.0411.C3.o2.gs  
 Start 1663  
 GI none  
 Exons 1663..2464, 2842..3002, 3052..3288

Seq. ID OJ000321\_31.0411.C3  
 Strand -  
 End 3288  
 Method GENSCAN  
 End 3288  
 Score .69

Seq. No. 44879  
 Gene No. 94658  
 Start 4590  
 Name OJ000321\_31.0411.C3.o3.gs  
 Start 4590  
 GI none  
 Exons 4590..4959, 5032..5090

Seq. ID OJ000321\_31.0411.C3  
 Strand -  
 End 5090  
 Method GENSCAN  
 End 5090  
 Score .97

Seq. No. 44879  
 Gene No. 94659

Seq. ID OJ000321\_31.0411.C3  
 Strand -

Start 8042  
 Name OJ000321\_31.0411.C3.o5.gs  
 Start 8042  
 GI none  
 Exons 8042..8140, 9465..9542

End 9542  
 Method GENSCAN  
 End 9542  
 Score .59

Seq. No. 44879  
 Gene No. 94660  
 Start 11373  
 Name OJ000321\_31.0411.C3.o1.tm  
 Start 1749  
 GI none  
 Exons 1749..1952, 1756..2028, 2104..2424, 2200..2427, 2345..2428

Seq. ID OJ000321\_31.0411.C3  
 Strand -  
 End 11581  
 Method TBLASTX:Maize  
 End 2428  
 Score 449

Seq. No. 44879  
 Gene No. 94660  
 Start 11373  
 Name OJ000321\_31.0411.C3.o2.tc  
 Start 1756  
 GI none  
 Exons 1756..1887, 1812..1889, 1909..2028, 2158..2205, 2251..2334, 2335..2421

Seq. ID OJ000321\_31.0411.C3  
 Strand -  
 End 11581  
 Method TBLASTX:Cress  
 End 2421  
 Score 145

Seq. No. 44879  
 Gene No. 94660  
 Start 11373  
 Name OJ000321\_31.0411.C3.o2.ts  
 Start 1756  
 GI none  
 Exons 1756..1887, 1812..1889, 1908..1952, 1909..2028

Seq. ID OJ000321\_31.0411.C3  
 Strand -  
 End 11581  
 Method TBLASTX:Soybean  
 End 2028  
 Score 155

Seq. No. 44879  
 Gene No. 94660  
 Start 11373  
 Name OJ000321\_31.0411.C3.o1.ts  
 Start 5996  
 GI none  
 Exons 5996..6127, 6004..6183, 6008..6229, 6009..6227, 6221..6370, 6224..6562, 6277..6534, 6298..6564, 6402..6542, 6419..6559

Seq. ID OJ000321\_31.0411.C3  
 Strand -  
 End 11581  
 Method TBLASTX:Soybean  
 End 6564  
 Score 74

Seq. No. 44879  
 Gene No. 94660  
 Start 11373  
 Name OJ000321\_31.0411.C3.o1.tc  
 Start 5999  
 GI none  
 Exons 5999..6190, 6008..6220, 6009..6227, 6224..6313, 6237..6311

Seq. ID OJ000321\_31.0411.C3  
 Strand -  
 End 11581  
 Method TBLASTX:Cress  
 End 6313  
 Score 94

Seq. No. 44879  
 Gene No. 94660  
 Start 11373  
 Name OJ000321\_31.0411.C3.o2.tm  
 Start 6008  
 GI none  
 Exons 6008..6223, 6009..6227, 6230..6562, 6274..6531, 6403..6564, 6843..6914, 6843..6911, 6844..6918

Seq. ID OJ000321\_31.0411.C3  
 Strand -  
 End 11581  
 Method TBLASTX:Maize  
 End 6918  
 Score 375

Seq. No.	44879	Seq. ID	OJ000321_31.0411.C3
Gene No.	94660	Strand	-
Start	11373	End	11581
Name	OJ000321_31.0411.C3.o1.tw	Method	TBLASTX:Wheat
Start	6140	End	6529
GI	none	Score	109
Exons	6140..6241, 6144..6227, 6224..6529, 6228..6521, 6230..6529		

Seq. No.	44879	Seq. ID	OJ000321_31.0411.C3
Gene No.	94660	Strand	-
Start	11373	End	11581
Name	OJ000321_31.0411.C3.o6.gs	Method	GENSCAN
Start	11373	End	11581
GI	none	Score	.6
Exons	11373..11403, 11460..11581		

Seq. No.	44880	Seq. ID	OJ000321_31.0411.C4
Gene No.	94661	Strand	+
Start	395	End	1111
Name	OJ000321_31.0411.C4.o1.gp	Method	AAT/GAP
Start	395	End	1111
GI	4715001	Score	1377
Exons	395..1111		

Seq. No.	44881	Seq. ID	OJ000321_31.0411.C6
Gene No.	94662	Strand	+
Start	82	End	2796
Name	OJ000321_31.0411.C6.o1.gp	Method	AAT/GAP
Start	82	End	641
GI	none	Score	1104
Exons	82..641		

Seq. No.	44881	Seq. ID	OJ000321_31.0411.C6
Gene No.	94662	Strand	+
Start	82	End	2796
Name	OJ000321_31.0411.C6.o1.gs	Method	GENSCAN
Start	134	End	2796
GI	none	Score	.74
Exons	134..633, 820..880, 1505..1585, 2053..2148, 2227..2382, 2650..2796		

Seq. No.	44881	Seq. ID	OJ000321_31.0411.C6
Gene No.	94663	Strand	+
Start	2722	End	3145
Name	OJ000321_31.0411.C6.o2.gp	Method	AAT/GAP
Start	2722	End	3145
GI	4715002	Score	781
Exons	2722..3145		

Seq. No.	44881	Seq. ID	OJ000321_31.0411.C6
Gene No.	94664	Strand	+
Start	6318	End	8703
Name	OJ000321_31.0411.C6.o3.gs	Method	GENSCAN
Start	6318	End	8703
GI	none	Score	.52
Exons	6318..6349, 6605..6741, 8007..8252, 8471..8703		

Seq. No.	44881	Seq. ID	OJ000321_31.0411.C6
Gene No.	94665	Strand	+
Start	11044	End	19647
Name	OJ000321_31.0411.C6.o2.np	Method	AAT/NAP
Start	11044	End	12189
GI	2253582	Score	389
Exons	11044..11184, 11315..11605, 11663..12189		
GI Descrip.	(U78721) putative homeodomain transcription factor [Arabidopsis thaliana]		

Seq. No.	44881	Seq. ID	OJ000321_31.0411.C6
Gene No.	94665	Strand	+
Start	11044	End	19647
Name	OJ000321_31.0411.C6.o4.gs	Method	GENSCAN
Start	11044	End	19647
GI	none	Score	.87
Exons	11044..11218, 11307..12398, 14637..14773, 15254..15484, 18142..18400, 18561..18667, 19183..19647		

Seq. No.	44881	Seq. ID	OJ000321_31.0411.C6
Gene No.	94666	Strand	+
Start	23491	End	25437
Name	OJ000321_31.0411.C6.o4.np	Method	AAT/NAP
Start	23491	End	25437
GI	5734757	Score	331
Exons	23491..23540, 23595..23706, 23761..23812, 24601..24679, 24764..24881, 25381..25437		
GI Descrip.	(AC007651) Unknown protein [Arabidopsis thaliana]		

Seq. No.	44881	Seq. ID	OJ000321_31.0411.C6
Gene No.	94667	Strand	-
Start	3878	End	5301
Name	OJ000321_31.0411.C6.o3.gp	Method	AAT/GAP
Start	3720	End	5301
GI	68292_1.R1084	Score	1890
Exons	3720..4313, 4917..5301		
GI Descrip.	'303742/dbj BAA02112  1.0e-102 (D12544) GTP-binding protein [Pisum sativum] >gi_738936_prf_2001457D GTP-binding protein [Pisum sativum]'		

Seq. No.	44881	Seq. ID	OJ000321_31.0411.C6
Gene No.	94667	Strand	-
Start	3878	End	5301
Name	OJ000321_31.0411.C6.o2.gs	Method	GENSCAN
Start	3878	End	5134
GI	none	Score	1
Exons	3878..4313, 4917..5134		

Seq. No.	44881	Seq. ID	OJ000321_31.0411.C6
Gene No.	94667	Strand	-
Start	3878	End	5301
Name	OJ000321_31.0411.C6.o1.np	Method	AAT/NAP
Start	3884	End	5137
GI	7438432	Score	968
Exons	3884..4313, 4917..5137		
GI Descrip.	GTP-binding protein - garden pea gi 303742 dbj BAA02112.1  (D12544) GTP-binding protein [Pisum sativum]		

## gi|738936|prf||2001457D GTP-binding protein [Pisum sativum]

Seq. No.	44881	Seq. ID	OJ000321_31.0411.C6
Gene No.	94668	Strand	-
Start	15182	End	27952
Name	OJ000321_31.0411.C6.o2.tm	Method	TBLASTX:Maize
Start	128	End	683
GI	none	Score	42
Exons	128..166, 168..587, 168..599, 582..683, 600..680		

Seq. No.	44881	Seq. ID	OJ000321_31.0411.C6
Gene No.	94668	Strand	-
Start	15182	End	27952
Name	OJ000321_31.0411.C6.o3.tm	Method	TBLASTX:Maize
Start	754	End	3112
GI	none	Score	56
Exons	754..828, 829..879, 835..879, 836..886, 1092..1190, 1215..1256, 1263..1403, 1265..1399, 1267..1404, 2053..2094, 2087..2182, 2095..2148, 2224..2352, 2224..2352, 2226..2357, 2339..2383, 2349..2384, 2349..2384, 2646..2813, 2649..2813, 2650..2817, 2929..2961, 2937..2960, 3016..3054, 3021..3065, 3062..3112		

Seq. No.	44881	Seq. ID	OJ000321_31.0411.C6
Gene No.	94668	Strand	-
Start	15182	End	27952
Name	OJ000321_31.0411.C6.o1.ts	Method	TBLASTX:Soybean
Start	3852	End	5132
GI	none	Score	207
Exons	3852..4313, 3853..4224, 3888..4316, 3920..4315, 4914..5132, 4916..5131		

Seq. No.	44881	Seq. ID	OJ000321_31.0411.C6
Gene No.	94668	Strand	-
Start	15182	End	27952
Name	OJ000321_31.0411.C6.o1.tm	Method	TBLASTX:Maize
Start	3885	End	5126
GI	none	Score	328
Exons	3885..4313, 3885..4301, 3923..4315, 4914..5126, 4916..5125		

Seq. No.	44881	Seq. ID	OJ000321_31.0411.C6
Gene No.	94668	Strand	-
Start	15182	End	27952
Name	OJ000321_31.0411.C6.o1.tw	Method	TBLASTX:Wheat
Start	3903	End	4316
GI	none	Score	373
Exons	3903..4316, 3904..4083, 3920..4315		

Seq. No.	44881	Seq. ID	OJ000321_31.0411.C6
Gene No.	94668	Strand	-
Start	15182	End	27952
Name	OJ000321_31.0411.C6.o1.tc	Method	TBLASTX:Cress
Start	3956	End	5128
GI	none	Score	161
Exons	3956..4315, 3957..4316, 4914..5102, 4916..5128		

Seq. No.	44881	Seq. ID	OJ000321_31.0411.C6
Gene No.	94668	Strand	-



Start 15182  
 Name OJ000321\_31.0411.C6.o2.tw  
 Start 4914  
 GI none  
 Exons 4914..5135, 4916..5134

End 27952  
 Method TBLASTX:Wheat  
 End 5135  
 Score 232

Seq. No. 44881  
 Gene No. 94668  
 Start 15182  
 Name OJ000321\_31.0411.C6.o2.ts  
 Start 11324  
 GI none  
 Exons 11324..11524, 11347..11502

Seq. ID OJ000321\_31.0411.C6  
 Strand -  
 End 27952  
 Method TBLASTX:Soybean  
 End 11524  
 Score 229

Seq. No. 44881  
 Gene No. 94668  
 Start 15182  
 Name OJ000321\_31.0411.C6.o3.np  
 Start 15182  
 GI 7531108

Seq. ID OJ000321\_31.0411.C6  
 Strand -  
 End 27952  
 Method AAT/NAP  
 End 27952  
 Score 227

Exons 15182..15285, 18442..18535, 20483..20770, 27933..27952  
 GI Descrip. ETHYLENE RESPONSIVE ELEMENT BINDING FACTOR 2 (ATERF2)  
 gi|3434969|dbj|BAA32419.1| (AB008104) ethylene responsive  
 element binding factor 2 [Arabidopsis thaliana]

Seq. No. 44881  
 Gene No. 94668  
 Start 15182  
 Name OJ000321\_31.0411.C6.o4.tm  
 Start 23381  
 GI none

Seq. ID OJ000321\_31.0411.C6  
 Strand -  
 End 27952  
 Method TBLASTX:Maize  
 End 25460  
 Score 39

Exons 23381..23476, 23386..23439, 23550..23630, 23557..23637,  
 24599..24700, 24599..24637, 24603..24695, 24662..24706,  
 24749..24880, 24764..24886, 24765..24890, 24771..24881,  
 25374..25460, 25381..25449

Seq. No. 44882  
 Gene No. 94669  
 Start 418  
 Name OJ000321\_31.0411.C7.o1.gp  
 Start 418  
 GI 624\_1.R1084  
 Exons 418..498, 615..730, 817..880

Seq. ID OJ000321\_31.0411.C7  
 Strand +  
 End 1611  
 Method AAT/GAP  
 End 880  
 Score 434

GI Descrip. '3128228 4.0e-92 (AC004077) putative ribosomal protein L18A  
 [Arabidopsis thaliana] >gi\_3337376 (AC004481) putative ribosomal  
 protein L18A [Arabidopsis thaliana]'

Seq. No. 44882  
 Gene No. 94669  
 Start 418  
 Name OJ000321\_31.0411.C7.o1.gs  
 Start 484  
 GI none  
 Exons 484..498, 615..730, 817..880

Seq. ID OJ000321\_31.0411.C7  
 Strand +  
 End 1611  
 Method GENSCAN  
 End 880  
 Score .91

Seq. No. 44882  
 Gene No. 94669

Seq. ID OJ000321\_31.0411.C7  
 Strand +

Start	418	End	1611
Name	OJ000321_31.0411.C7.o1.tw	Method	TBLASTX:Wheat
Start	569	End	900
GI	none	Score	221
Exons	569..730, 570..749, 615..758, 813..881, 815..880, 817..900, 818..883		

Seq. No.	44882	Seq. ID	OJ000321_31.0411.C7
Gene No.	94669	Strand	+
Start	418	End	1611
Name	OJ000321_31.0411.C7.o1.ts	Method	TBLASTX:Soybean
Start	591	End	888
GI	none	Score	222
Exons	591..749, 605..730, 615..758, 813..881, 817..888, 818..883		

Seq. No.	44882	Seq. ID	OJ000321_31.0411.C7
Gene No.	94669	Strand	+
Start	418	End	1611
Name	OJ000321_31.0411.C7.o1.np	Method	AAT/NAP
Start	600	End	1611
GI	7440926	Score	231
Exons	600..730, 817..880, 1273..1611		
GI Descrip.	ribosomal protein L18a, cytosolic - Arabidopsis thaliana gi 3128228 gb AAC26708.1  (AC004077) 60S ribosomal protein L18A [Arabidopsis thaliana]		

Seq. No.	44882	Seq. ID	OJ000321_31.0411.C7
Gene No.	94669	Strand	+
Start	418	End	1611
Name	OJ000321_31.0411.C7.o1.tm	Method	TBLASTX:Maize
Start	605	End	888
GI	none	Score	224
Exons	605..730, 606..749, 817..888, 818..883		

Seq. No.	44882	Seq. ID	OJ000321_31.0411.C7
Gene No.	94669	Strand	+
Start	418	End	1611
Name	OJ000321_31.0411.C7.o1.tc	Method	TBLASTX:Cress
Start	606	End	883
GI	none	Score	193
Exons	606..749, 623..730, 813..881, 817..879, 818..883		

Seq. No.	44883	Seq. ID	OJ000321_32.0410.C2
Gene No.	94670	Strand	-
Start	671	End	1080
Name	OJ000321_32.0410.C2.o1.gs	Method	GENSCAN
Start	671	End	1051
GI	none	Score	.87
Exons	671..1051		

Seq. No.	44883	Seq. ID	OJ000321_32.0410.C2
Gene No.	94670	Strand	-
Start	671	End	1080
Name	OJ000321_32.0410.C2.o1.gp	Method	AAT/GAP
Start	690	End	1080
GI	4034_1.R1084	Score	750
Exons	690..1080		

GI Descrip. '4239845/dbj|BAA74714| 8.0e-18 (AB015855) transcription factor  
TEIL [Nicotiana tabacum]'

Seq. No.	44883	Seq. ID	OJ000321_32.0410.C2
Gene No.	94670	Strand	-
Start	671	End	1080
Name	OJ000321_32.0410.C2.o1.tm	Method	TBLASTX:Maize
Start	709	End	1078
GI	none	Score	133
Exons	709..831, 749..841, 750..842, 878..928, 893..997, 930..1007, 957..1028, 962..1015, 993..1076, 1001..1078, 1012..1077		

Seq. No.	44884	Seq. ID	OJ000321_32.0410.C3
Gene No.	94671	Strand	+
Start	125	End	2336
Name	OJ000321_32.0410.C3.o1.gs	Method	GENSCAN
Start	125	End	2336
GI	none	Score	.65
Exons	125..238, 359..602, 998..1134, 1448..1525, 2169..2336		

Seq. No.	44884	Seq. ID	OJ000321_32.0410.C3
Gene No.	94672	Strand	+
Start	3215	End	4372
Name	OJ000321_32.0410.C3.o1.gp	Method	AAT/GAP
Start	3215	End	4372
GI	4034_1.R1084	Score	2262
Exons	3215..4372		

GI Descrip. '4239845/dbj|BAA74714| 8.0e-18 (AB015855) transcription factor  
TEIL [Nicotiana tabacum]'

Seq. No.	44884	Seq. ID	OJ000321_32.0410.C3
Gene No.	94673	Strand	-
Start	3501	End	7246
Name	OJ000321_32.0410.C3.o2.gs	Method	GENSCAN
Start	3501	End	5423
GI	none	Score	.65
Exons	3501..5423		

Seq. No.	44884	Seq. ID	OJ000321_32.0410.C3
Gene No.	94673	Strand	-
Start	3501	End	7246
Name	OJ000321_32.0410.C3.o1.np	Method	AAT/NAP
Start	3507	End	6340
GI	4239845	Score	1282
Exons	3507..5222, 6271..6340		

GI Descrip. (AB015855) transcription factor TEIL [Nicotiana tabacum]

Seq. No.	44884	Seq. ID	OJ000321_32.0410.C3
Gene No.	94673	Strand	-
Start	3501	End	7246
Name	OJ000321_32.0410.C3.o2.gp	Method	AAT/GAP
Start	4471	End	7246
GI	13411_1.R1084	Score	2440
Exons	4471..5508, 7033..7246		

GI Descrip. '4239845/dbj|BAA74714| 1.0e-109 (AB015855) transcription factor  
TEIL [Nicotiana tabacum]'

Seq. No.	44884	Seq. ID	OJ000321_32.0410.C3
Gene No.	94674	Strand	-
Start	21012	End	35300
Name	OJ000321_32.0410.C3.o6.gs	Method	GENSCAN
Start	21012	End	24724
GI	none	Score	.8
Exons	21012..21593, 21595..21660, 22739..22788, 22845..22986, 23213..23528, 23608..23722, 24277..24724		

Seq. No.	44884	Seq. ID	OJ000321_32.0410.C3
Gene No.	94674	Strand	-
Start	21012	End	35300
Name	OJ000321_32.0410.C3.o3.np	Method	AAT/NAP
Start	21146	End	27194
GI	5922636	Score	184
Exons	21146..21195, 21232..21701, 22871..23157, 24293..24909, 25197..25341, 25604..25720, 27145..27194		
GI Descrip.	(AP000492) ESTs C99517(E20319),AU078130(E20319) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016869 dbj BAA85212.1  (AP000570) ESTs C99517(E20319),AU078130(E20319) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	44884	Seq. ID	OJ000321_32.0410.C3
Gene No.	94674	Strand	-
Start	21012	End	35300
Name	OJ000321_32.0410.C3.o3.gp	Method	AAT/GAP
Start	24512	End	24811
GI	569555	Score	572
Exons	24512..24811		

Seq. No.	44884	Seq. ID	OJ000321_32.0410.C3
Gene No.	94674	Strand	-
Start	21012	End	35300
Name	OJ000321_32.0410.C3.o7.gs	Method	GENSCAN
Start	25192	End	35300
GI	none	Score	.76
Exons	25192..25522, 26384..26420, 26503..26601, 27159..27568, 27626..27763, 29303..29355, 30404..30472, 31057..31158, 31821..31886, 32029..32079, 32165..32260, 32345..32444, 32516..32597, 33831..33995, 35249..35300		

Seq. No.	44884	Seq. ID	OJ000321_32.0410.C3
Gene No.	94674	Strand	-
Start	21012	End	35300
Name	OJ000321_32.0410.C3.o4.np	Method	AAT/NAP
Start	29302	End	34050
GI	6539563	Score	803
Exons	29302..29355, 29945..30040, 30237..30320, 31057..31158, 31821..31886, 32029..32079, 32345..32444, 32477..32597, 33831..34050		
GI Descrip.	(AP000836) Similar to ISP42-like protein (AF051231) [Oryza sativa]		

Seq. No.	44884	Seq. ID	OJ000321_32.0410.C3
Gene No.	94675	Strand	-
Start	36770	End	38576

Name	OJ000321_32.0410.C3.o1.tm	Method	TBLASTX:Maize
Start	3256	End	5432
GI	none	Score	81
Exons	3256..3291, 3296..3358, 3344..3406, 3501..3533, 3540..3608, 3541..3609, 3603..3662, 3615..3662, 3616..3663, 3795..3986, 3799..3987, 3806..4045, 3954..4169, 3977..4168, 3979..4197, 4122..4298, 4135..4272, 4267..4623, 4272..5156, 4529..4693, 4554..4796, 4687..5103, 5091..5180, 5157..5267, 5235..5357, 5260..5358, 5343..5432, 5344..5427, 5355..5432		

Seq. No.	44884	Seq. ID	OJ000321_32.0410.C3
Gene No.	94675	Strand	-
Start	36770	End	38576
Name	OJ000321_32.0410.C3.o1.ts	Method	TBLASTX:Soybean
Start	3801	End	5180
GI	none	Score	217
Exons	3801..3917, 4014..4136, 4159..4188, 4341..5090, 4390..4620, 4641..4790, 4687..5073, 5121..5180		

Seq. No.	44884	Seq. ID	OJ000321_32.0410.C3
Gene No.	94675	Strand	-
Start	36770	End	38576
Name	OJ000321_32.0410.C3.o1.tc	Method	TBLASTX:Cress
Start	3843	End	5180
GI	none	Score	201
Exons	3843..3914, 4014..4133, 4341..4796, 4390..4620, 4482..4796, 4687..4797, 4827..5090, 4828..5106, 5136..5180		

Seq. No.	44884	Seq. ID	OJ000321_32.0410.C3
Gene No.	94675	Strand	-
Start	36770	End	38576
Name	OJ000321_32.0410.C3.o1.tw	Method	TBLASTX:Wheat
Start	5130	End	5433
GI	none	Score	70
Exons	5130..5180, 5157..5267, 5235..5432, 5260..5433		

Seq. No.	44884	Seq. ID	OJ000321_32.0410.C3
Gene No.	94675	Strand	-
Start	36770	End	38576
Name	OJ000321_32.0410.C3.o3.ts	Method	TBLASTX:Soybean
Start	24335	End	24571
GI	none	Score	215
Exons	24335..24571		

Seq. No.	44884	Seq. ID	OJ000321_32.0410.C3
Gene No.	94675	Strand	-
Start	36770	End	38576
Name	OJ000321_32.0410.C3.o2.ts	Method	TBLASTX:Soybean
Start	29949	End	33885
GI	none	Score	84
Exons	29949..30053, 29963..30064, 30237..30257, 30258..30323, 30259..30321, 30401..30472, 30402..30473, 31054..31161, 31055..31162, 31812..31886, 32028..32081, 32029..32082, 32162..32263, 32169..32261, 32351..32449, 32352..32447, 32518..32598, 32522..32596, 33838..33885		

Seq. No.	44884	Seq. ID	OJ000321_32.0410.C3
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Gene No.	94675	Strand	-
Start	36770	End	38576
Name	OJ000321_32.0410.C3.o2.tm	Method	TBLASTX:Maize
Start	30008	End	33969
GI	none	Score	117
Exons	30008..30061, 30230..30322, 30231..30323, 30237..30323, 30239..30325, 30377..30472, 30402..30473, 30402..30473, 30403..30474, 31045..31161, 31055..31162, 31055..31162, 31812..31886, 31813..31887, 32023..32082, 32023..32082, 32024..32095, 32156..32263, 32163..32261, 32165..32263, 32166..32267, 32325..32447, 32330..32449, 32345..32449, 32347..32451, 32516..32596, 32516..32596, 32517..32597, 32518..32598, 32518..32598, 33826..33885, 33827..33883, 33940..33969		

Seq. No.	44884	Seq. ID	OJ000321_32.0410.C3
Gene No.	94675	Strand	-
Start	36770	End	38576
Name	OJ000321_32.0410.C3.o2.tc	Method	TBLASTX:Cress
Start	32202	End	33963
GI	none	Score	62
Exons	32202..32261, 32207..32263, 32324..32401, 32330..32401, 32397..32444, 32518..32613, 32522..32596, 33826..33963, 33827..33877		

Seq. No.	44884	Seq. ID	OJ000321_32.0410.C3
Gene No.	94675	Strand	-
Start	36770	End	38576
Name	OJ000321_32.0410.C3.o8.gs	Method	GENSCAN
Start	36770	End	38576
GI	none	Score	.72
Exons	36770..36881, 36921..37036, 37054..37431, 37941..37985, 38128..38252, 38480..38576		

Seq. No.	44885	Seq. ID	OJ000321_32.0410.C4
Gene No.	94676	Strand	+
Start	1236	End	3610
Name	OJ000321_32.0410.C4.o1.gs	Method	GENSCAN
Start	1236	End	3610
GI	none	Score	.81
Exons	1236..1693, 1801..1973, 2182..2258, 3285..3404, 3456..3610		

Seq. No.	44885	Seq. ID	OJ000321_32.0410.C4
Gene No.	94677	Strand	+
Start	5909	End	6155
Name	OJ000321_32.0410.C4.o1.gp	Method	AAT/GAP
Start	5909	End	6155
GI	none	Score	427
Exons	5909..6155		

Seq. No.	44885	Seq. ID	OJ000321_32.0410.C4
Gene No.	94678	Strand	+
Start	6617	End	6783
Name	OJ000321_32.0410.C4.o2.gp	Method	AAT/GAP
Start	6617	End	6783
GI	none	Score	297
Exons	6617..6783		

Seq. No.	44885	Seq. ID	OJ000321_32.0410.C4
Gene No.	94679	Strand	+
Start	11323	End	17072
Name	OJ000321_32.0410.C4.o3.np	Method	AAT/NAP
Start	11323	End	17072
GI	1362162	Score	666
Exons	11323..11345, 15116..15197, 16161..16300, 16417..16448, 16558..16659, 16777..17072		
GI Descrip.	beta-glucosidase BGQ60 precursor - barley gi 804656 (L41869) beta-glucosidase [Hordeum vulgare]		

Seq. No.	44885	Seq. ID	OJ000321_32.0410.C4
Gene No.	94679	Strand	+
Start	11323	End	17072
Name	OJ000321_32.0410.C4.o4.gs	Method	GENSCAN
Start	11934	End	12518
GI	none	Score	.5
Exons	11934..12518		

Seq. No.	44885	Seq. ID	OJ000321_32.0410.C4
Gene No.	94680	Strand	+
Start	18900	End	19605
Name	OJ000321_32.0410.C4.o5.gp	Method	AAT/GAP
Start	18900	End	19605
GI	7195_1.R1084	Score	1368
Exons	18900..19605		
GI Descrip.	'2130042/pir  S64721 4.0e-34 Mg-chelatase chain Xantha-f - barley >gi_861199 (U26916) protoporphyrin IX Mg-chelatase subunit precursor [Hordeum vulgare]'		

Seq. No.	44885	Seq. ID	OJ000321_32.0410.C4
Gene No.	94681	Strand	-
Start	7323	End	11379
Name	OJ000321_32.0410.C4.o3.gs	Method	GENSCAN
Start	7323	End	11379
GI	none	Score	.86
Exons	7323..7472, 7754..7857, 7907..8033, 8822..8899, 8985..9089, 9137..9277, 9413..9523, 9768..10307, 10395..10787, 11033..11129, 11360..11379		

Seq. No.	44885	Seq. ID	OJ000321_32.0410.C4
Gene No.	94681	Strand	-
Start	7323	End	11379
Name	OJ000321_32.0410.C4.o1.np	Method	AAT/NAP
Start	10468	End	10766
GI	7485984	Score	228
Exons	10468..10766		
GI Descrip.	hypothetical protein F22013.18 - Arabidopsis thaliana gi 3063456 gb AAC14044.1  (AC003981) F22013.18 [Arabidopsis thaliana]		

Seq. No.	44885	Seq. ID	OJ000321_32.0410.C4
Gene No.	94682	Strand	-
Start	11353	End	12214
Name	OJ000321_32.0410.C4.o2.np	Method	AAT/NAP
Start	11353	End	12214

GI 7485983 Score 361  
 Exons 11353..11421, 11503..11590, 11916..11977, 12116..12214  
 GI Descrip. hypothetical protein F22O13.17 - Arabidopsis thaliana  
 gi|3063455|gb|AAC14043.1| (AC003981) F22O13.17 [Arabidopsis  
 thaliana]

Seq. No. 44885 Seq. ID OJ000321\_32.0410.C4  
 Gene No. 94683 Strand -  
 Start 15305 End 24519  
 Name OJ000321\_32.0410.C4.o6.tm Method TBLASTX:Maize  
 Start 6037 End 6329  
 GI none Score 79  
 Exons 6037..6105, 6049..6096, 6051..6104, 6090..6143, 6150..6329,  
 6205..6327

Seq. No. 44885 Seq. ID OJ000321\_32.0410.C4  
 Gene No. 94683 Strand -  
 Start 15305 End 24519  
 Name OJ000321\_32.0410.C4.o5.tm Method TBLASTX:Maize  
 Start 9849 End 10145  
 GI none Score 60  
 Exons 9849..9884, 9857..9925, 9877..9930, 9878..9925, 9928..10110,  
 9933..10142, 9936..10145

Seq. No. 44885 Seq. ID OJ000321\_32.0410.C4  
 Gene No. 94683 Strand -  
 Start 15305 End 24519  
 Name OJ000321\_32.0410.C4.o3.ts Method TBLASTX:Soybean  
 Start 10416 End 12166  
 GI none Score 84  
 Exons 10416..10640, 10480..10638, 10536..10640, 10644..10790,  
 10645..10773, 10647..10775, 11033..11131, 11034..11132,  
 11034..11132, 11035..11133, 11360..11437, 11362..11442,  
 11482..11589, 11510..11590, 11918..11977, 11919..11978,  
 12116..12166

Seq. No. 44885 Seq. ID OJ000321\_32.0410.C4  
 Gene No. 94683 Strand -  
 Start 15305 End 24519  
 Name OJ000321\_32.0410.C4.o4.tm Method TBLASTX:Maize  
 Start 10519 End 10790  
 GI none Score 156  
 Exons 10519..10782, 10519..10635, 10520..10636, 10521..10790

Seq. No. 44885 Seq. ID OJ000321\_32.0410.C4  
 Gene No. 94683 Strand -  
 Start 15305 End 24519  
 Name OJ000321\_32.0410.C4.o2.tm Method TBLASTX:Maize  
 Start 15114 End 17076  
 GI none Score 91  
 Exons 15114..15191, 15117..15191, 16140..16190, 16140..16178,  
 16182..16301, 16188..16310, 16189..16305, 16199..16315,  
 16401..16454, 16418..16447, 16557..16664, 16560..16658,  
 16561..16659, 16561..16668, 16767..16988, 16767..16979,  
 16777..16992, 16778..16987, 16996..17022, 17011..17076,  
 17019..17066



Seq. No.	44885	Seq. ID	OJ000321_32.0410.C4
Gene No.	94683	Strand	-
Start	15305	End	24519
Name	OJ000321_32.0410.C4.o5.gs	Method	GENSCAN
Start	15305	End	24251
GI	none	Score	.42
Exons	15305..16002, 16221..16338, 18315..18399, 18745..19595, 20825..22627, 23438..23520, 23576..24251		

Seq. No.	44885	Seq. ID	OJ000321_32.0410.C4
Gene No.	94683	Strand	-
Start	15305	End	24519
Name	OJ000321_32.0410.C4.o2.ts	Method	TBLASTX:Soybean
Start	16189	End	17065
GI	none	Score	96
Exons	16189..16296, 16200..16301, 16422..16454, 16557..16658, 16561..16659, 16561..16668, 16776..16988, 16777..16992, 16996..17022, 17018..17065		

Seq. No.	44885	Seq. ID	OJ000321_32.0410.C4
Gene No.	94683	Strand	-
Start	15305	End	24519
Name	OJ000321_32.0410.C4.o6.tc	Method	TBLASTX:Cress
Start	16189	End	17022
GI	none	Score	74
Exons	16189..16248, 16553..16657, 16563..16664, 16564..16659, 16570..16668, 16776..16979, 16777..16992, 16996..17022		

Seq. No.	44885	Seq. ID	OJ000321_32.0410.C4
Gene No.	94683	Strand	-
Start	15305	End	24519
Name	OJ000321_32.0410.C4.o1.tw	Method	TBLASTX:Wheat
Start	16606	End	16992
GI	none	Score	61
Exons	16606..16659, 16776..16988, 16777..16992		

Seq. No.	44885	Seq. ID	OJ000321_32.0410.C4
Gene No.	94683	Strand	-
Start	15305	End	24519
Name	OJ000321_32.0410.C4.o4.gp	Method	AAT/GAP
Start	17934	End	18349
GI	none	Score	342
Exons	17934..18148, 18314..18349		

Seq. No.	44885	Seq. ID	OJ000321_32.0410.C4
Gene No.	94683	Strand	-
Start	15305	End	24519
Name	OJ000321_32.0410.C4.o1.tm	Method	TBLASTX:Maize
Start	18591	End	21547
GI	none	Score	43
Exons	18591..18647, 18610..18642, 18722..18784, 18732..19274, 18732..19598, 18823..19596, 19326..19598, 20813..21547, 20813..21547		

Seq. No.	44885	Seq. ID	OJ000321_32.0410.C4
Gene No.	94683	Strand	-
Start	15305	End	24519

Name	OJ000321_32.0410.C4.o1.ts	Method	TBLASTX:Soybean
Start	18735	End	24383
GI	none	Score	257
Exons	18735..19121, 18738..19598, 18823..19596, 19335..19598, 20813..21577, 20813..22630, 20829..22628, 22043..22630, 23438..23521, 23445..23522, 23619..24383, 23622..24065, 23707..24381, 24225..24383		
Seq. No.	44885	Seq. ID	OJ000321_32.0410.C4
Gene No.	94683	Strand	-
Start	15305	End	24519
Name	OJ000321_32.0410.C4.o1.tc	Method	TBLASTX:Cress
Start	18739	End	19481
GI	none	Score	304
Exons	18739..19467, 18741..19121, 18741..19481, 18823..19467		
Seq. No.	44885	Seq. ID	OJ000321_32.0410.C4
Gene No.	94683	Strand	-
Start	15305	End	24519
Name	OJ000321_32.0410.C4.o4.np	Method	AAT/NAP
Start	18744	End	24519
GI	2130042	Score	5526
Exons	18744..19595, 20825..22627, 23438..23520, 23609..24519		
GI Descrip.	Mg-chelatase chain Xantha-f - barley gi 861199 (U26916): protoporphyrin IX Mg-chelatase subunit precursor [Hordeum vulgare]		
Seq. No.	44885	Seq. ID	OJ000321_32.0410.C4
Gene No.	94683	Strand	-
Start	15305	End	24519
Name	OJ000321_32.0410.C4.o2.tc	Method	TBLASTX:Cress
Start	20915	End	21571
GI	none	Score	58
Exons	20915..20977, 20927..21052, 20987..21571, 20988..21563		
Seq. No.	44885	Seq. ID	OJ000321_32.0410.C4
Gene No.	94683	Strand	-
Start	15305	End	24519
Name	OJ000321_32.0410.C4.o3.tm	Method	TBLASTX:Maize
Start	21747	End	22256
GI	none	Score	311
Exons	21747..22100, 21748..22101, 21749..22105, 21794..22111, 21804..22112, 22075..22209, 22076..22216, 22112..22225, 22116..22250, 22117..22254, 22119..22256		
Seq. No.	44885	Seq. ID	OJ000321_32.0410.C4
Gene No.	94683	Strand	-
Start	15305	End	24519
Name	OJ000321_32.0410.C4.o3.tc	Method	TBLASTX:Cress
Start	21956	End	22439
GI	none	Score	522
Exons	21956..22435, 21957..22439		
Seq. No.	44885	Seq. ID	OJ000321_32.0410.C4
Gene No.	94683	Strand	-
Start	15305	End	24519
Name	OJ000321_32.0410.C4.o5.tc	Method	TBLASTX:Cress

Start	22538	End	23864
GI	none	Score	113
Exons	22538..22624, 22539..22628, 22548..22628, 22549..22629, 23438..23521, 23439..23522, 23619..23831, 23619..23864, 23623..23862		

Seq. No.	44885	Seq. ID	OJ000321_32.0410.C4
Gene No.	94683	Strand	-
Start	15305	End	24519
Name	OJ000321_32.0410.C4.o4.tc	Method	TBLASTX:Cress
Start	24045	End	24383
GI	none	Score	290
Exons	24045..24383, 24046..24381, 24228..24383		

Seq. No.	44885	Seq. ID	OJ000321_32.0410.C4
Gene No.	94683	Strand	-
Start	15305	End	24519
Name	OJ000321_32.0410.C4.o6.gp	Method	AAT/GAP
Start	24197	End	24385
GI	3768414	Score	340
Exons	24197..24385		
GI Descrip.	2130042/pir  S64721 4.0e-34 Mg-chelatase chain Xantha-f - barley >gi_861199 (U26916) protoporphyrin IX Mg-chelatase subunit precursor [Hordeum vulgare]		

Seq. No.	44886	Seq. ID	OJ000301_25.0410.C2
Gene No.	94684	Strand	+
Start	1	End	714
Name	OJ000301_25.0410.C2.o1.np	Method	AAT/NAP
Start	1	End	714
GI	4097522	Score	147
Exons	1..165, 696..714		
GI Descrip.	(U63534) cinnamyl alcohol dehydrogenase [Fragaria x ananassa]		

Seq. No.	44886	Seq. ID	OJ000301_25.0410.C2
Gene No.	94684	Strand	+
Start	1	End	714
Name	OJ000301_25.0410.C2.o1.tw	Method	TBLASTX:Wheat
Start	2	End	172
GI	none	Score	169
Exons	2..43, 37..162, 38..172, 104..163		

Seq. No.	44886	Seq. ID	OJ000301_25.0410.C2
Gene No.	94684	Strand	+
Start	1	End	714
Name	OJ000301_25.0410.C2.o1.gs	Method	GENSCAN
Start	59	End	163
GI	none	Score	.95
Exons	59..163		

Seq. No.	44887	Seq. ID	OJ000301_25.0410.C4
Gene No.	94685	Strand	+
Start	188	End	4892
Name	OJ000301_25.0410.C4.o1.gs	Method	GENSCAN
Start	188	End	4677
GI	none	Score	.73
Exons	188..328, 369..657, 728..846, 2933..3142, 3261..3496,		

3781..4540, 4653..4677

Seq. No.	44887	Seq. ID	OJ000301_25.0410.C4
Gene No.	94685	Strand	+
Start	188	End	4892
Name	OJ000301_25.0410.C4.o1.tw	Method	TBLASTX:Wheat
Start	3684	End	4071
GI	none	Score	345
Exons	3684..4070, 3695..4069, 3808..4071		

Seq. No.	44887	Seq. ID	OJ000301_25.0410.C4
Gene No.	94685	Strand	+
Start	188	End	4892
Name	OJ000301_25.0410.C4.o1.np	Method	AAT/NAP
Start	3690	End	4892
GI	6539553	Score	1978
Exons	3690..4892		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi 6539590 dbj BAA88206.1  (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	44887	Seq. ID	OJ000301_25.0410.C4
Gene No.	94685	Strand	+
Start	188	End	4892
Name	OJ000301_25.0410.C4.o1.tm	Method	TBLASTX:Maize
Start	3819	End	4132
GI	none	Score	348
Exons	3819..4130, 3827..4132		

Seq. No.	44887	Seq. ID	OJ000301_25.0410.C4
Gene No.	94685	Strand	+
Start	188	End	4892
Name	OJ000301_25.0410.C4.o2.tm	Method	TBLASTX:Maize
Start	4631	End	4892
GI	none	Score	221
Exons	4631..4879, 4638..4892, 4639..4875, 4647..4877		

Seq. No.	44888	Seq. ID	OJ000301_25.0410.C5
Gene No.	94686	Strand	+
Start	1294	End	2231
Name	OJ000301_25.0410.C5.o1.gs	Method	GENSCAN
Start	1294	End	2231
GI	none	Score	.69
Exons	1294..1382, 1766..1890, 2029..2231		

Seq. No.	44888	Seq. ID	OJ000301_25.0410.C5
Gene No.	94687	Strand	+
Start	8375	End	8513
Name	OJ000301_25.0410.C5.o2.gp	Method	AAT/GAP
Start	8375	End	8513
GI	none	Score	249
Exons	8375..8513		

Seq. No.	44888	Seq. ID	OJ000301_25.0410.C5
Gene No.	94688	Strand	-
Start	3044	End	5900

Name	OJ000301_25.0410.C5.o2.gs	Method	GENSCAN
Start	3044	End	5900
GI	none	Score	.87
Exons	3044..3196, 3740..4015, 4092..4148, 4243..4320, 4794..4880, 5497..5586, 5694..5900		

Seq. No.	44888	Seq. ID	OJ000301_25.0410.C5
Gene No.	94689	Strand	-
Start	6053	End	7774
Name	OJ000301_25.0410.C5.o3.gs	Method	GENSCAN
Start	6053	End	7036
GI	none	Score	.96
Exons	6053..7036		

Seq. No.	44888	Seq. ID	OJ000301_25.0410.C5
Gene No.	94689	Strand	-
Start	6053	End	7774
Name	OJ000301_25.0410.C5.o2.np	Method	AAT/NAP
Start	6221	End	7470
GI	7446482	Score	111
Exons	6221..6357, 6596..7120, 7350..7470		
GI Descrip.	probable cell wall-plasma membrane linker protein PRP precursor - rape gi 1155068 emb CAA64425.1  (X94976) cell wall-plasma membrane linker protein [Brassica napus]		

Seq. No.	44888	Seq. ID	OJ000301_25.0410.C5
Gene No.	94689	Strand	-
Start	6053	End	7774
Name	OJ000301_25.0410.C5.o1.np	Method	AAT/NAP
Start	6223	End	7774
GI	5302795	Score	251
Exons	6223..6636, 7698..7774		
GI Descrip.	(Z97341) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	44888	Seq. ID	OJ000301_25.0410.C5
Gene No.	94689	Strand	-
Start	6053	End	7774
Name	OJ000301_25.0410.C5.o1.tm	Method	TBLASTX:Maize
Start	6224	End	6438
GI	none	Score	273
Exons	6224..6433, 6226..6438		

Seq. No.	44888	Seq. ID	OJ000301_25.0410.C5
Gene No.	94689	Strand	-
Start	6053	End	7774
Name	OJ000301_25.0410.C5.o1.tc	Method	TBLASTX:Cress
Start	6229	End	6438
GI	none	Score	89
Exons	6229..6438, 6254..6433		

Seq. No.	44888	Seq. ID	OJ000301_25.0410.C5
Gene No.	94689	Strand	-
Start	6053	End	7774
Name	OJ000301_25.0410.C5.o1.ts	Method	TBLASTX:Soybean
Start	6265	End	6438
GI	none	Score	84
Exons	6265..6438, 6272..6433		

Seq. No.	44888	Seq. ID	OJ000301_25.0410.C5
Gene No.	94689	Strand	-
Start	6053	End	7774
Name	OJ000301_25.0410.C5.o1.gp	Method	AAT/GAP
Start	6360	End	6861
GI	none	Score	996
Exons	6360..6861		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94690	Strand	+
Start	222	End	3578
Name	OJ000301_25.0410.C6.o1.gs	Method	GENSCAN
Start	222	End	3578
GI	none	Score	.96
Exons	222..561, 1249..1334, 1411..1515, 1603..2397, 2585..2807, 3184..3578		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94690	Strand	+
Start	222	End	3578
Name	OJ000301_25.0410.C6.o1.np	Method	AAT/NAP
Start	264	End	3299
GI	5734720	Score	400
Exons	264..425, 454..673, 1433..1471, 1628..2397, 2585..2807, 3184..3299		
GI Descrip.	(AC008075) Contains PF 01426 BAH (bromo-adjacent homology) domain. ESTs gb N96349, gb T42710, gb H77084, gb AA395147 and gb AA605500 come from this gene. [Arabidopsis thaliana]		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94690	Strand	+
Start	222	End	3578
Name	OJ000301_25.0410.C6.o1.gp	Method	AAT/GAP
Start	2358	End	3569
GI	10978_1.R1084	Score	1181
Exons	2358..2397, 2585..2807, 3184..3569		
GI Descrip.	'5734720/gb AAD49985.1 AC008075_18 2.0e-10 (AC008075) Contains PF_01426 BAH (bromo-adjacent homology) domain. ESTs gb_N96349, gb_T42710, gb_H77084, gb_AA395147 and gb_AA605500 come from this gene. [Arabidopsis thaliana]'		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94691	Strand	+
Start	7535	End	8525
Name	OJ000301_25.0410.C6.o3.gs	Method	GENSCAN
Start	7535	End	8525
GI	none	Score	.82
Exons	7535..7618, 8293..8455, 8494..8525		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94692	Strand	+
Start	16877	End	17347
Name	OJ000301_25.0410.C6.o4.gp	Method	AAT/GAP
Start	16877	End	17347
GI	uC-osflcyp154b05b1	Score	877
Exons	16877..17347		

GI Descrip. '5091496/dbj|AB023482.2|AB023482 4.0e-23 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94693	Strand	+
Start	18576	End	19873
Name	OJ000301_25.0410.C6.o5.gp	Method	AAT/GAP
Start	18432	End	19061
GI	2428298	Score	845
Exons	18432..18611, 18788..19061		

GI Descrip. 5091516/dbj|BAA78751.1| 3.0e-32 (AB023482) ESTs C72761(E2193),AU056875(S20945), AU056876(S20945) correspond to a region of the predicted gene.; Similar to Thermus thermophilus gene for homocitrate synthase, homoaconitate hydratase, and ORF,complete and part

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94693	Strand	+
Start	18576	End	19873
Name	OJ000301_25.0410.C6.o7.np	Method	AAT/NAP
Start	18576	End	19648
GI	5091516	Score	1430
Exons	18576..18611, 18788..19648		

GI Descrip. (AB023482) ESTs C72761(E2193),AU056875(S20945), AU056876(S20945) correspond to a region of the predicted gene.; Similar to Thermus thermophilus gene for homocitrate synthase, homoaconitate hydratase, and ORF,complete and part...

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94693	Strand	+
Start	18576	End	19873
Name	OJ000301_25.0410.C6.o8.gs	Method	GENSCAN
Start	18576	End	19651
GI	none	Score	1
Exons	18576..18611, 18788..19651		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94693	Strand	+
Start	18576	End	19873
Name	OJ000301_25.0410.C6.o6.gp	Method	AAT/GAP
Start	19109	End	19873
GI	92272_1.R1084	Score	1303
Exons	19109..19873		

GI Descrip. '5091516/dbj|BAA78751.1| 2.0e-59 (AB023482) ESTs C72761(E2193),AU056875(S20945), AU056876(S20945) correspond to a region of the predicted gene.; Similar to Thermus thermophilus gene for homocitrate synthase, homoaconitate hydratase, and ORF,complete and part'

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94694	Strand	-
Start	4648	End	8135
Name	OJ000301_25.0410.C6.o2.gp	Method	AAT/GAP
Start	4595	End	4918
GI	none	Score	519
Exons	4595..4918		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94694	Strand	-
Start	4648	End	8135
Name	OJ000301_25.0410.C6.o2.np	Method	AAT/NAP
Start	4597	End	8135
GI	4567229	Score	475
Exons	4597..4795, 5165..5400, 6408..6630, 6777..6904, 7061..7177, 7523..7634, 8093..8135		
GI Descrip.	(AC007119) putative pectinesterase [Arabidopsis thaliana]		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94694	Strand	-
Start	4648	End	8135
Name	OJ000301_25.0410.C6.o2.gs	Method	GENSCAN
Start	4648	End	7398
GI	none	Score	.76
Exons	4648..4859, 5184..5400, 5794..5813, 6408..6904, 7061..7398		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94695	Strand	-
Start	10363	End	16138
Name	OJ000301_25.0410.C6.o3.np	Method	AAT/NAP
Start	10363	End	11525
GI	2464914	Score	276
Exons	10363..10584, 11265..11525		
GI Descrip.	(Z99708) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94695	Strand	-
Start	10363	End	16138
Name	OJ000301_25.0410.C6.o5.np	Method	AAT/NAP
Start	11375	End	16138
GI	6016874	Score	2186
Exons	11375..11598, 13223..13488, 13966..14307, 14419..14598, 14992..15151, 15542..15774, 15839..15976, 16060..16138		
GI Descrip.	(AP000570) ESTs C19143(E10020), D25076(R3116) correspond to a region of the predicted gene.; Similar to putative AC9 transposase. (P03010) [Oryza sativa]		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94695	Strand	-
Start	10363	End	16138
Name	OJ000301_25.0410.C6.o6.gs	Method	GENSCAN
Start	13964	End	16138
GI	none	Score	.71
Exons	13964..14598, 14992..15151, 15542..16138		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94695	Strand	-
Start	10363	End	16138
Name	OJ000301_25.0410.C6.o3.gp	Method	AAT/GAP
Start	14941	End	15449
GI	uC-osflcyp110c07b1	Score	958
Exons	14941..15449		
GI Descrip.	'4680178/gb AF111709.1 AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes'		



Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94696	Strand	-
Start	16525	End	18055
Name	OJ000301_25.0410.C6.o7.gs	Method	GENSCAN
Start	16525	End	18055
GI	none	Score	.81
Exons	16525..16646, 16911..17072, 18019..18055		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94696	Strand	-
Start	16525	End	18055
Name	OJ000301_25.0410.C6.o6.np	Method	AAT/NAP
Start	16537	End	16785
GI	6907084	Score	128
Exons	16537..16640, 16715..16785		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94697	Strand	-
Start	23840	End	24040
Name	OJ000301_25.0410.C6.o5.tm	Method	TBLASTX:Maize
Start	282	End	559
GI	none	Score	286
Exons	282..479, 290..487, 464..559, 465..524, 491..547		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94697	Strand	-
Start	23840	End	24040
Name	OJ000301_25.0410.C6.o3.tm	Method	TBLASTX:Maize
Start	1246	End	1876
GI	none	Score	67
Exons	1246..1299, 1253..1306, 1254..1334, 1409..1492, 1410..1490, 1410..1493, 1411..1491, 1482..1541, 1483..1515, 1591..1743, 1602..1742, 1603..1755, 1605..1745, 1747..1869, 1765..1872, 1799..1876		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94697	Strand	-
Start	23840	End	24040
Name	OJ000301_25.0410.C6.o1.ts	Method	TBLASTX:Soybean
Start	1597	End	2632
GI	none	Score	359
Exons	1597..2019, 1608..1715, 1612..1860, 1764..1961, 2119..2349, 2244..2315, 2341..2397, 2343..2414, 2576..2632		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94697	Strand	-
Start	23840	End	24040
Name	OJ000301_25.0410.C6.o12.tm	Method	TBLASTX:Maize
Start	2705	End	3420
GI	none	Score	133
Exons	2705..2800, 2707..2808, 2707..2808, 2717..2824, 3165..3329, 3176..3331, 3176..3328, 3177..3338, 3181..3342, 3335..3406, 3335..3415, 3336..3416, 3337..3420		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
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Gene No.	94697	Strand	-
Start	23840	End	24040
Name	OJ000301_25.0410.C6.o10.tm	Method	TBLASTX:Maize
Start	5170	End	6564
GI	none	Score	91
Exons	5170..5412, 5180..5332, 5354..5398, 6408..6563, 6415..6564		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94697	Strand	-
Start	23840	End	24040
Name	OJ000301_25.0410.C6.o9.tm	Method	TBLASTX:Maize
Start	10360	End	11604
GI	none	Score	149
Exons	10360..10521, 10369..10521, 10521..10583, 10525..10551, 10528..10584, 11304..11333, 11328..11414, 11329..11421, 11406..11447, 11457..11492, 11575..11604		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94697	Strand	-
Start	23840	End	24040
Name	OJ000301_25.0410.C6.o2.tm	Method	TBLASTX:Maize
Start	11810	End	12331
GI	none	Score	238
Exons	11810..12031, 11816..12028, 12050..12331, 12076..12327		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94697	Strand	-
Start	23840	End	24040
Name	OJ000301_25.0410.C6.o7.tm	Method	TBLASTX:Maize
Start	14030	End	14273
GI	none	Score	89
Exons	14030..14263, 14115..14273		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94697	Strand	-
Start	23840	End	24040
Name	OJ000301_25.0410.C6.o11.tm	Method	TBLASTX:Maize
Start	14349	End	14731
GI	none	Score	138
Exons	14349..14720, 14450..14731		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94697	Strand	-
Start	23840	End	24040
Name	OJ000301_25.0410.C6.o8.tm	Method	TBLASTX:Maize
Start	14936	End	15250
GI	none	Score	109
Exons	14936..15163, 14937..15155, 15176..15250		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94697	Strand	-
Start	23840	End	24040
Name	OJ000301_25.0410.C6.o6.tm	Method	TBLASTX:Maize
Start	15344	End	15790
GI	none	Score	110
Exons	15344..15382, 15377..15433, 15470..15718, 15510..15719, 15704..15790		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94697	Strand	-
Start	23840	End	24040
Name	OJ000301_25.0410.C6.o1.tm	Method	TBLASTX:Maize
Start	18788	End	19344
GI	none	Score	812
Exons	18788..19339, 18788..19078, 18790..19098, 18858..19340, 18858..19148, 19121..19339, 19189..19344, 19224..19343		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94697	Strand	-
Start	23840	End	24040
Name	OJ000301_25.0410.C6.o1.tc	Method	TBLASTX:Cress
Start	18824	End	19123
GI	none	Score	115
Exons	18824..18958, 18965..19123		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94697	Strand	-
Start	23840	End	24040
Name	OJ000301_25.0410.C6.o2.ts	Method	TBLASTX:Soybean
Start	19064	End	19381
GI	none	Score	221
Exons	19064..19381, 19083..19121, 19177..19317		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94697	Strand	-
Start	23840	End	24040
Name	OJ000301_25.0410.C6.o2.tc	Method	TBLASTX:Cress
Start	19393	End	19633
GI	none	Score	204
Exons	19393..19599, 19394..19633, 19412..19606		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94697	Strand	-
Start	23840	End	24040
Name	OJ000301_25.0410.C6.o4.tm	Method	TBLASTX:Maize
Start	19395	End	19675
GI	none	Score	408
Exons	19395..19652, 19396..19653, 19397..19675		

Seq. No.	44889	Seq. ID	OJ000301_25.0410.C6
Gene No.	94697	Strand	-
Start	23840	End	24040
Name	OJ000301_25.0410.C6.o9.gs	Method	GENSCAN
Start	23840	End	24040
GI	none	Score	.74
Exons	23840..24040		

Seq. No.	44890	Seq. ID	OJ000301_25.0410.C7
Gene No.	94698	Strand	+
Start	619	End	2740
Name	OJ000301_25.0410.C7.o1.gs	Method	GENSCAN
Start	619	End	2740
GI	none	Score	.87
Exons	619..652, 2583..2740		

Seq. No.	44890	Seq. ID	OJ000301_25.0410.C7
Gene No.	94699	Strand	+
Start	3189	End	14262
Name	OJ000301_25.0410.C7.o1.gp	Method	AAT/GAP
Start	3116	End	3633
GI	uC-osrocyp007e06b1	Score	971
Exons	3116..3633		
GI Descrip.	'5453880/ref NP_006296.1 pPHAP1  2.0e-15 Putative human HLA class II associated protein I >gi_730318_sp_P39687_PHA1_HUMAN POTENT HEAT-STABLE PROTEIN PHOSPHATASE 2A INHIBITOR I1P2A (HLA-DR ASSOCIATED PROTEIN I) (PHAPI) (ACIDIC NUCLEAR PHOSPHOPROTEIN PP32) (CEREBELLAR LEUCINE RICH ACIDIC NUCLEAR PROTEIN) >gi_631325_pir__S43309 probable HLA class II-associated protein PHAPI - huma'		

Seq. No.	44890	Seq. ID	OJ000301_25.0410.C7
Gene No.	94699	Strand	+
Start	3189	End	14262
Name	OJ000301_25.0410.C7.o1.np	Method	AAT/NAP
Start	3189	End	6193
GI	6561972	Score	914
Exons	3189..4003, 4031..4348, 5963..6193		
GI Descrip.	(AL132979) putative protein [Arabidopsis thaliana]		

Seq. No.	44890	Seq. ID	OJ000301_25.0410.C7
Gene No.	94699	Strand	+
Start	3189	End	14262
Name	OJ000301_25.0410.C7.o2.gs	Method	GENSCAN
Start	3189	End	11453
GI	none	Score	.74
Exons	3189..3884, 3950..4360, 5969..6191, 6271..6319, 6753..6778, 6867..6974, 7504..7577, 7634..7726, 7763..7861, 8828..9029, 9218..9423, 9935..10007, 10419..10583, 11425..11453		

Seq. No.	44890	Seq. ID	OJ000301_25.0410.C7
Gene No.	94699	Strand	+
Start	3189	End	14262
Name	OJ000301_25.0410.C7.o3.gp	Method	AAT/GAP
Start	6249	End	10751
GI	none	Score	1224
Exons	6249..6319, 9218..9423, 9935..10007, 10419..10751		

Seq. No.	44890	Seq. ID	OJ000301_25.0410.C7
Gene No.	94699	Strand	+
Start	3189	End	14262
Name	OJ000301_25.0410.C7.o2.np	Method	AAT/NAP
Start	10703	End	12563
GI	3914142	Score	86
Exons	10703..10735, 12166..12563		
GI Descrip.	EARLY NODULIN 20 PRECURSOR (N-20) gi 1771351 emb CAA67830  (X99467) ENOD20 [Medicago truncatula]		

Seq. No.	44890	Seq. ID	OJ000301_25.0410.C7
Gene No.	94699	Strand	+
Start	3189	End	14262
Name	OJ000301_25.0410.C7.o4.gp	Method	AAT/GAP

Start	12159	End	13820
GI	uG-osflcyp031h11b1	Score	930
Exons	12159..12484, 12570..12647, 13724..13820		
GI Descrip.	'3402817/emb CAA07704  7.0e-19 (AJ007829) lacZ'' [Cloning vector pGreen]'		

Seq. No.	44890	Seq. ID	OJ000301_25.0410.C7
Gene No.	94699	Strand	+
Start	3189	End	14262
Name	OJ000301_25.0410.C7.o3.gs	Method	GENSCAN
Start	12196	End	14262
GI	none	Score	.88
Exons	12196..12484, 12570..12647, 13724..13899, 14068..14262		

Seq. No.	44890	Seq. ID	OJ000301_25.0410.C7
Gene No.	94700	Strand	+
Start	14177	End	14523
Name	OJ000301_25.0410.C7.o5.gp	Method	AAT/GAP
Start	14177	End	14523
GI	2798284	Score	391
Exons	14177..14307, 14410..14523		
GI Descrip.	3402817/emb CAA07704  7.0e-19 (AJ007829) lacZ' [Cloning vector pGreen]		

Seq. No.	44890	Seq. ID	OJ000301_25.0410.C7
Gene No.	94701	Strand	-
Start	14219	End	17916
Name	OJ000301_25.0410.C7.o1.tm	Method	TBLASTX:Maize
Start	3189	End	3485
GI	none	Score	77
Exons	3189..3242, 3234..3311, 3242..3310, 3293..3481, 3300..3485, 3300..3485		

Seq. No.	44890	Seq. ID	OJ000301_25.0410.C7
Gene No.	94701	Strand	-
Start	14219	End	17916
Name	OJ000301_25.0410.C7.o1.ts	Method	TBLASTX:Soybean
Start	3321	End	3677
GI	none	Score	452
Exons	3321..3677, 3323..3646		

Seq. No.	44890	Seq. ID	OJ000301_25.0410.C7
Gene No.	94701	Strand	-
Start	14219	End	17916
Name	OJ000301_25.0410.C7.o2.tc	Method	TBLASTX:Cress
Start	3515	End	3677
GI	none	Score	212
Exons	3515..3646, 3516..3677		

Seq. No.	44890	Seq. ID	OJ000301_25.0410.C7
Gene No.	94701	Strand	-
Start	14219	End	17916
Name	OJ000301_25.0410.C7.o4.tm	Method	TBLASTX:Maize
Start	3570	End	3887
GI	none	Score	142
Exons	3570..3677, 3572..3646, 3780..3851, 3786..3887		

Seq. No.	44890	Seq. ID	OJ000301_25.0410.C7
Gene No.	94701	Strand	-
Start	14219	End	17916
Name	OJ000301_25.0410.C7.o3.tm	Method	TBLASTX:Maize
Start	9331	End	10716
GI	none	Score	132
Exons	9331..9420, 9370..9420, 9915..10007, 9928..10008, 9935..10009, 9935..10009, 10404..10541, 10415..10570, 10417..10662, 10418..10567, 10608..10649, 10660..10716, 10661..10714, 10687..10716		

Seq. No.	44890	Seq. ID	OJ000301_25.0410.C7
Gene No.	94701	Strand	-
Start	14219	End	17916
Name	OJ000301_25.0410.C7.o1.tc	Method	TBLASTX:Cress
Start	12397	End	14262
GI	none	Score	91
Exons	12397..12480, 13725..13784, 13732..13785, 13831..13899, 14052..14228, 14062..14262, 14067..14198		

Seq. No.	44890	Seq. ID	OJ000301_25.0410.C7
Gene No.	94701	Strand	-
Start	14219	End	17916
Name	OJ000301_25.0410.C7.o2.tm	Method	TBLASTX:Maize
Start	12420	End	14524
GI	none	Score	109
Exons	12420..12476, 12421..12483, 12573..12650, 12575..12685, 12575..12664, 13719..13898, 13720..13899, 13742..13915, 14052..14261, 14062..14262, 14062..14262, 14292..14336, 14328..14363, 14329..14364, 14381..14446, 14386..14442, 14397..14447, 14398..14448, 14453..14524, 14460..14495		

Seq. No.	44890	Seq. ID	OJ000301_25.0410.C7
Gene No.	94701	Strand	-
Start	14219	End	17916
Name	OJ000301_25.0410.C7.o2.ts	Method	TBLASTX:Soybean
Start	13728	End	14265
GI	none	Score	207
Exons	13728..13886, 13732..13899, 14052..14264, 14062..14265, 14066..14143, 14067..14198		

Seq. No.	44890	Seq. ID	OJ000301_25.0410.C7
Gene No.	94701	Strand	-
Start	14219	End	17916
Name	OJ000301_25.0410.C7.o3.np	Method	AAT/NAP
Start	14219	End	17778
GI	7489565	Score	327
Exons	14219..14285, 15475..15598, 15977..16144, 16711..16772, 16845..16967, 17622..17778		
GI Descrip.	probable transcription factor - rice gi 2826786 emb CAA71844.1  (Y10905) RAPB protein [Oryza sativa]		

Seq. No.	44890	Seq. ID	OJ000301_25.0410.C7
Gene No.	94701	Strand	-
Start	14219	End	17916
Name	OJ000301_25.0410.C7.o6.gp	Method	AAT/GAP
Start	14964	End	16929

GI 41522\_1.R1084 Score 1784  
 Exons 14964..15598, 15977..16144, 16711..16779, 16861..16929  
 GI Descrip. '5091516/dbj|BAA78751.1| 3.0e-32 (AB023482) ESTs  
 C72761(E2193),AU056875(S20945), AU056876(S20945) correspond to a  
 region of the predicted gene.; Similar to Thermus thermophilus  
 gene for homocitrate synthase, homoaconitate hydratase, and  
 ORF,complete and part'

Seq. No. 44890 Seq. ID OJ000301\_25.0410.C7  
 Gene No. 94701 Strand -  
 Start 14219 End 17916  
 Name OJ000301\_25.0410.C7.o4.gs Method GENSCAN  
 Start 15236 End 17916  
 GI none Score .83  
 Exons 15236..15333, 15430..15598, 15977..16144, 16711..16779,  
 16861..16967, 17616..17766, 17860..17916

Seq. No. 44891 Seq. ID OJ000301\_25.0410.C8  
 Gene No. 94702 Strand +  
 Start 5952 End 8294  
 Name OJ000301\_25.0410.C8.o1.gp Method AAT/GAP  
 Start 5857 End 8294  
 GI 41307\_1.R1084 Score 1103  
 Exons 5857..6189, 7690..7725, 7827..7905, 8044..8098, 8176..8294  
 GI Descrip. '3329475 4.0e-20 (AF069781) Bem46-like protein [Drosophila  
 melanogaster]'

Seq. No. 44891 Seq. ID OJ000301\_25.0410.C8  
 Gene No. 94702 Strand +  
 Start 5952 End 8294  
 Name OJ000301\_25.0410.C8.o2.gs Method GENSCAN  
 Start 5952 End 8292  
 GI none Score .69  
 Exons 5952..6160, 6273..6410, 8044..8098, 8176..8292

Seq. No. 44891 Seq. ID OJ000301\_25.0410.C8  
 Gene No. 94702 Strand +  
 Start 5952 End 8294  
 Name OJ000301\_25.0410.C8.o1.np Method AAT/NAP  
 Start 6113 End 8260  
 GI 3329475 Score 122  
 Exons 6113..6202, 7690..7725, 7827..7905, 8044..8098, 8176..8260  
 GI Descrip. (AF069781) Bem46-like protein [Drosophila melanogaster]  
 gi|7295869|gb|AAF51169.1| (AE003581) CG18642 gene product  
 [Drosophila melanogaster]

Seq. No. 44891 Seq. ID OJ000301\_25.0410.C8  
 Gene No. 94703 Strand -  
 Start 1385 End 2765  
 Name OJ000301\_25.0410.C8.o1.gs Method GENSCAN  
 Start 1385 End 2765  
 GI none Score .71  
 Exons 1385..1505, 1958..2135, 2492..2575, 2675..2765

Seq. No. 44891 Seq. ID OJ000301\_25.0410.C8  
 Gene No. 94704 Strand -  
 Start 5777 End 8297

Name	OJ000301_25.0410.C8.o1.ts	Method	TBLASTX:Soybean
Start	5777	End	7730
GI	none	Score	41
Exons	5777..5845, 5952..6191, 6027..6167, 7689..7730		

Seq. No.	44891	Seq. ID	OJ000301_25.0410.C8
Gene No.	94704	Strand	
Start	5777	End	8297
Name	OJ000301_25.0410.C8.o1.tc	Method	TBLASTX:Cress
Start	5952	End	8295
GI	none	Score	207
Exons	5952..6179, 6027..6167, 7688..7729, 7689..7730, 7826..7900, 7826..7894, 8050..8094, 8054..8098, 8062..8106, 8175..8285, 8185..8295, 8199..8294		

Seq. No.	44891	Seq. ID	OJ000301_25.0410.C8
Gene No.	94704	Strand	
Start	5777	End	8297
Name	OJ000301_25.0410.C8.o1.tm	Method	TBLASTX:Maize
Start	5952	End	6182
GI	none	Score	250
Exons	5952..6182, 6027..6179, 6068..6181		

Seq. No.	44891	Seq. ID	OJ000301_25.0410.C8
Gene No.	94704	Strand	
Start	5777	End	8297
Name	OJ000301_25.0410.C8.o2.tm	Method	TBLASTX:Maize
Start	7683	End	8297
GI	none	Score	75
Exons	7683..7730, 7688..7729, 7826..7912, 7828..7911, 8013..8102, 8045..8098, 8171..8293, 8173..8295, 8175..8294, 8185..8295, 8190..8297		

Seq. No.	44891	Seq. ID	OJ000301_25.0410.C8
Gene No.	94704	Strand	
Start	5777	End	8297
Name	OJ000301_25.0410.C8.o2.ts	Method	TBLASTX:Soybean
Start	7826	End	8297
GI	none	Score	126
Exons	7826..7915, 7826..7912, 8045..8095, 8047..8094, 8175..8264, 8176..8292, 8185..8295, 8199..8297		

Seq. No.	44892	Seq. ID	OJ000301_25.0410.C9
Gene No.	94705	Strand	+
Start	1	End	6437
Name	OJ000301_25.0410.C9.o1.np	Method	AAT/NAP
Start	1	End	963
GI	6324009	Score	78
Exons	1..80, 758..963		
GI Descrip.	Ynl320wp gi 1176584 sp P42840 YN60 YEAST HYPOTHETICAL 32.3 KD PROTEIN IN KRE1-HXT14 INTERGENIC REGION gi 1077427 pir  S51294 probable membrane protein YNL320w - yeast (Saccharomyces cerevisiae) gi 633665 emb CAA86377.1  (Z46259) N0342 [Saccharomyces cerevisiae] gi 1302432 emb CAA96251.1  (Z71596) ORF YNL320w [Saccharomyces cerevisiae]		

Seq. No.	44892	Seq. ID	OJ000301_25.0410.C9
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Gene No.	94705	Strand	+
Start	1	End	6437
Name	OJ000301_25.0410.C9.o3.tm	Method	TBLASTX:Maize
Start	182	End	1750
GI	none	Score	204
Exons	182..358, 190..372, 190..357, 192..362, 1533..1586, 1534..1572, 1581..1670, 1582..1671, 1583..1699, 1664..1705, 1672..1707, 1724..1750		

Seq. No.	44892	Seq. ID	OJ000301_25.0410.C9
Gene No.	94705	Strand	+
Start	1	End	6437
Name	OJ000301_25.0410.C9.o1.tc	Method	TBLASTX:Cress
Start	190	End	981
GI	none	Score	233
Exons	190..360, 192..362, 748..981, 756..962		

Seq. No.	44892	Seq. ID	OJ000301_25.0410.C9
Gene No.	94705	Strand	+
Start	1	End	6437
Name	OJ000301_25.0410.C9.o1.ts	Method	TBLASTX:Soybean
Start	190	End	965
GI	none	Score	218
Exons	190..372, 192..344, 203..391, 205..372, 751..963, 756..965, 756..962		

Seq. No.	44892	Seq. ID	OJ000301_25.0410.C9
Gene No.	94705	Strand	+
Start	1	End	6437
Name	OJ000301_25.0410.C9.o1.gp	Method	AAT/GAP
Start	191	End	344
GI	41307_1.R1084	Score	246
Exons	191..344		
GI Descrip.	'3329475 4.0e-20 (AF069781) Bem46-like protein [Drosophila melanogaster]'		

Seq. No.	44892	Seq. ID	OJ000301_25.0410.C9
Gene No.	94705	Strand	+
Start	1	End	6437
Name	OJ000301_25.0410.C9.o1.gs	Method	GENSCAN
Start	193	End	6360
GI	none	Score	.62
Exons	193..357, 754..963, 3067..3184, 3355..3387, 4147..4260, 5309..5537, 6234..6360		

Seq. No.	44892	Seq. ID	OJ000301_25.0410.C9
Gene No.	94705	Strand	+
Start	1	End	6437
Name	OJ000301_25.0410.C9.o1.tm	Method	TBLASTX:Maize
Start	741	End	1012
GI	none	Score	272
Exons	741..1001, 744..968, 745..1008, 748..1008, 749..1012		

Seq. No.	44892	Seq. ID	OJ000301_25.0410.C9
Gene No.	94705	Strand	+
Start	1	End	6437
Name	OJ000301_25.0410.C9.o2.gp	Method	AAT/GAP

Start 773  
 GI none  
 Exons 773..1009, 1534..1981

End 1981  
 Score 1258

Seq. No. 44892  
 Gene No. 94705  
 Start 1  
 Name OJ000301\_25.0410.C9.o3.gp  
 Start 3025  
 GI 6705\_1.R1084  
 Exons 3025..3184, 3355..3387, 5309..5581  
 GI Descrip. '166410 7.0e-44 (L07291) Alfin-1 [Medicago sativa]'

Seq. ID OJ000301\_25.0410.C9  
 Strand +  
 End 6437  
 Method AAT/GAP  
 End 5581  
 Score 778

Seq. No. 44892  
 Gene No. 94705  
 Start 1  
 Name OJ000301\_25.0410.C9.o2.np  
 Start 3085  
 GI 7543887  
 Exons 3085..3184, 3355..3387, 5309..5537, 6234..6437  
 GI Descrip. (AL138639) nucleic acid binding protein-like [Arabidopsis thaliana]

Seq. ID OJ000301\_25.0410.C9  
 Strand +  
 End 6437  
 Method AAT/NAP  
 End 6437  
 Score 533

Seq. No. 44892  
 Gene No. 94705  
 Start 1  
 Name OJ000301\_25.0410.C9.o2.tm  
 Start 3091  
 GI none  
 Exons 3091..3180, 3345..3398, 5306..5548, 5307..5543, 5308..5547

Seq. ID OJ000301\_25.0410.C9  
 Strand +  
 End 6437  
 Method TBLASTX:Maize  
 End 5548  
 Score 137

Seq. No. 44892  
 Gene No. 94705  
 Start 1  
 Name OJ000301\_25.0410.C9.o2.ts  
 Start 3094  
 GI none  
 Exons 3094..3180, 3345..3398, 5273..5539, 5307..5567, 6232..6300

Seq. ID OJ000301\_25.0410.C9  
 Strand +  
 End 6437  
 Method TBLASTX:Soybean  
 End 6300  
 Score 127

Seq. No. 44892  
 Gene No. 94705  
 Start 1  
 Name OJ000301\_25.0410.C9.o2.tc  
 Start 5319  
 GI none  
 Exons 5319..5564, 5323..5352, 5407..5538, 6232..6300

Seq. ID OJ000301\_25.0410.C9  
 Strand +  
 End 6437  
 Method TBLASTX:Cress  
 End 6300  
 Score 53

Seq. No. 44893  
 Gene No. 94706  
 Start 461  
 Name OJ000301\_25.0410.C10.o1.gs  
 Start 461  
 GI none  
 Exons 461..523, 716..848, 978..1267

Seq. ID OJ000301\_25.0410.C10  
 Strand +  
 End 1267  
 Method GENSCAN  
 End 1267  
 Score .84

Seq. No. 44893  
 Gene No. 94707

Seq. ID OJ000301\_25.0410.C10  
 Strand -

Start	1	End	369
Name	OJ000301_25.0410.C10.o1.gp	Method	AAT/GAP
Start	1	End	369
GI	3817_1.R1084	Score	719
Exons	1..369		
GI Descrip.	'3319341 4.0e-24 (AF077407) similar to Medicago sativa nucleic acid binding protein Alfin-1 (GB:L07291) [Arabidopsis thaliana]'		

Seq. No.	44893	Seq. ID	OJ000301_25.0410.C10
Gene No.	94708	Strand	-
Start	1679	End	2732
Name	OJ000301_25.0410.C10.o1.np	Method	AAT/NAP
Start	1679	End	2732
GI	4582468	Score	307
Exons	1679..1740, 2349..2499, 2593..2732		
GI Descrip.	(AC007071) 40S ribosomal protein; contains C-terminal domain [Arabidopsis thaliana]		

Seq. No.	44893	Seq. ID	OJ000301_25.0410.C10
Gene No.	94708	Strand	-
Start	1679	End	2732
Name	OJ000301_25.0410.C10.o2.gp	Method	AAT/GAP
Start	2172	End	2732
GI	600_2.R1084	Score	874
Exons	2172..2499, 2593..2732		
GI Descrip.	'4680203/gb AAD27566.1 AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	44893	Seq. ID	OJ000301_25.0410.C10
Gene No.	94708	Strand	-
Start	1679	End	2732
Name	OJ000301_25.0410.C10.o2.gs	Method	GENSCAN
Start	2341	End	2682
GI	none	Score	.81
Exons	2341..2499, 2593..2682		

Seq. No.	44893	Seq. ID	OJ000301_25.0410.C10
Gene No.	94708	Strand	-
Start	1679	End	2732
Name	OJ000301_25.0410.C10.o1.tc	Method	TBLASTX:Cress
Start	2350	End	2727
GI	none	Score	148
Exons	2350..2502, 2351..2500, 2402..2518, 2591..2725, 2593..2727, 2594..2725		

Seq. No.	44893	Seq. ID	OJ000301_25.0410.C10
Gene No.	94708	Strand	-
Start	1679	End	2732
Name	OJ000301_25.0410.C10.o1.tw	Method	TBLASTX:Wheat
Start	2356	End	2664
GI	none	Score	165
Exons	2356..2499, 2360..2500, 2596..2664, 2597..2662		

Seq. No.	44893	Seq. ID	OJ000301_25.0410.C10
Gene No.	94708	Strand	-
Start	1679	End	2732
Name	OJ000301_25.0410.C10.o1.tm	Method	TBLASTX:Maize

Start	2360	End	2727
GI	none	Score	172
Exons	2360..2500, 2362..2502, 2387..2503, 2401..2514, 2591..2725, 2593..2727, 2594..2725		

Seq. No.	44893	Seq. ID	OJ000301_25.0410.C10
Gene No.	94708	Strand	-
Start	1679	End	2732
Name	OJ000301_25.0410.C10.ol.ts	Method	TBLASTX:Soybean
Start	2371	End	2732
GI	none	Score	100
Exons	2371..2502, 2372..2500, 2593..2631, 2594..2680, 2641..2727, 2642..2725, 2644..2727, 2649..2732		

Seq. No.	44894	Seq. ID	OJ000301_25.0410.C11
Gene No.	94709	Strand	-
Start	1	End	329
Name	OJ000301_25.0410.C11.ol.gp	Method	AAT/GAP
Start	1	End	329
GI	600_2.R1084	Score	374
Exons	1..114, 211..329		
GI Descrip.	'4680203/gb AAD27566.1 AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	44894	Seq. ID	OJ000301_25.0410.C11
Gene No.	94709	Strand	-
Start	1	End	329
Name	OJ000301_25.0410.C11.ol.tw	Method	TBLASTX:Wheat
Start	1	End	255
GI	none	Score	39
Exons	1..117, 211..255		

Seq. No.	44894	Seq. ID	OJ000301_25.0410.C11
Gene No.	94709	Strand	-
Start	1	End	329
Name	OJ000301_25.0410.C11.ol.np	Method	AAT/NAP
Start	1	End	240
GI	4582468	Score	188
Exons	1..114, 211..240		
GI Descrip.	(AC007071) 40S ribosomal protein; contains C-terminal domain [Arabidopsis thaliana]		

Seq. No.	44894	Seq. ID	OJ000301_25.0410.C11
Gene No.	94709	Strand	-
Start	1	End	329
Name	OJ000301_25.0410.C11.ol.tm	Method	TBLASTX:Maize
Start	1	End	117
GI	none	Score	64
Exons	1..117, 2..115, 55..117		

Seq. No.	44894	Seq. ID	OJ000301_25.0410.C11
Gene No.	94709	Strand	-
Start	1	End	329
Name	OJ000301_25.0410.C11.ol.tc	Method	TBLASTX:Cress
Start	1	End	252
GI	none	Score	39
Exons	1..117, 211..252		

Seq. No.	44894	Seq. ID	OJ000301_25.0410.C11
Gene No.	94709	Strand	-
Start	1	End	329
Name	OJ000301_25.0410.C11.o1.gs	Method	GENSCAN
Start	31	End	246
GI	none	Score	1
Exons	31..114, 211..246		

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94710	Strand	+
Start	1	End	185
Name	OJ000301_25.0410.C12.o1.np	Method	AAT/NAP
Start	1	End	185
GI	7523512	Score	142
Exons	1..185		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94711	Strand	+
Start	932	End	4275
Name	OJ000301_25.0410.C12.o1.gs	Method	GENSCAN
Start	932	End	4275
GI	none	Score	.72
Exons	932..1758, 1945..2193, 2289..3593, 3615..4275		

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94711	Strand	+
Start	932	End	4275
Name	OJ000301_25.0410.C12.o2.np	Method	AAT/NAP
Start	932	End	4272
GI	5803259	Score	5031
Exons	932..2193, 2289..2518, 2603..4272		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94712	Strand	+
Start	15300	End	25329
Name	OJ000301_25.0410.C12.o3.gs	Method	GENSCAN
Start	15300	End	20490
GI	none	Score	.64
Exons	15300..15486, 18134..18212, 18429..18565, 18684..18772, 19063..19148, 19899..20490		

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94712	Strand	+
Start	15300	End	25329
Name	OJ000301_25.0410.C12.o6.np	Method	AAT/NAP
Start	15306	End	19343
GI	4337011	Score	915
Exons	15306..15486, 15578..15609, 16360..16449, 17011..17105, 17220..17409, 17581..17650, 18134..18212, 18429..18562, 18684..18769, 19063..19148, 19244..19343		
GI Descrip.	(AF119572) zinc-binding peroxisomal integral membrane protein [Arabidopsis thaliana]		

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
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Gene No.	94712	Strand	+
Start	15300	End	25329
Name	OJ000301_25.0410.C12.o7.np	Method	AAT/NAP
Start	15434	End	25329
GI	1076802	Score	236
Exons	15434..15534, 19912..20402, 21047..21278, 21340..21834, 25255..25329		
GI Descrip.	extensin-like protein - maize gi 600118 emb CAA84230  (Z34465) extensin-like protein [Zea mays] gi 1096557 prf  2111476A extensin-like domain [Zea mays]		

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94712	Strand	+
Start	15300	End	25329
Name	OJ000301_25.0410.C12.o2.gp	Method	AAT/GAP
Start	16999	End	17398
GI	569647	Score	536
Exons	16999..17105, 17205..17398		
GI Descrip.	3075382 2.0e-10 (AC002505) putative peroxisome assembly protein PER8 [Arabidopsis thaliana] >gi_3075384 (AC004484) putative peroxisome assembly protein PER8 [Arabidopsis thaliana]		

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94712	Strand	+
Start	15300	End	25329
Name	OJ000301_25.0410.C12.o3.gp	Method	AAT/GAP
Start	18174	End	19523
GI	6459_1.R1084	Score	1052
Exons	18174..18212, 18430..18562, 18684..18772, 19063..19148, 19244..19523		
GI Descrip.	'4337011/gb AAD18035.1  4.0e-29 (AF119572) zinc-binding peroxisomal integral membrane protein [Arabidopsis thaliana]'		

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94712	Strand	+
Start	15300	End	25329
Name	OJ000301_25.0410.C12.o5.gp	Method	AAT/GAP
Start	21231	End	22307
GI	15225_1.R1084	Score	1796
Exons	21231..22307		
GI Descrip.	'4582460/gb AAD24844.1 AC007071_16 6.0e-11 (AC007071) unknown protein [Arabidopsis thaliana]'		

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94712	Strand	+
Start	15300	End	25329
Name	OJ000301_25.0410.C12.o4.gp	Method	AAT/GAP
Start	21263	End	21772
GI	none	Score	964
Exons	21263..21772		

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94712	Strand	+
Start	15300	End	25329
Name	OJ000301_25.0410.C12.o4.gs	Method	GENSCAN
Start	21346	End	22158
GI	none	Score	.99

Exons 21346..22158

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94712	Strand	+
Start	15300	End	25329
Name	OJ000301_25.0410.C12.o10.np	Method	AAT/NAP
Start	22608	End	25329
GI	7488142	Score	183

Exons 22608..22647, 22883..23146, 23692..23775, 24135..24270, 25283..25329

GI Descrip. probable peroxisome assembly protein PER8 - Arabidopsis thaliana gi|3075382|gb|AAC14514.1| (AC002505) putative peroxisomal membrane protein [Arabidopsis thaliana]

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94712	Strand	+
Start	15300	End	25329
Name	OJ000301_25.0410.C12.o6.gp	Method	AAT/GAP
Start	22718	End	23070
GI	569647	Score	360

Exons 22718..22780, 22877..23070

GI Descrip. 3075382 2.0e-10 (AC002505) putative peroxisome assembly protein PER8 [Arabidopsis thaliana] >gi 3075384 (AC004484) putative peroxisome assembly protein PER8 [Arabidopsis thaliana]

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94712	Strand	+
Start	15300	End	25329
Name	OJ000301_25.0410.C12.o9.np	Method	AAT/NAP
Start	22921	End	24271
GI	7488142	Score	181

Exons 22921..23146, 23692..23775, 24135..24271

GI Descrip. probable peroxisome assembly protein PER8 - Arabidopsis thaliana gi|3075382|gb|AAC14514.1| (AC002505) putative peroxisomal membrane protein [Arabidopsis thaliana]

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94713	Strand	-
Start	4904	End	11056
Name	OJ000301_25.0410.C12.o3.np	Method	AAT/NAP
Start	4904	End	11056
GI	7228457	Score	9439

Exons 4904..6454, 6521..7672, 7795..8629, 8693..10623, 10685..11056

GI Descrip. (AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94714	Strand	-
Start	11284	End	11749
Name	OJ000301_25.0410.C12.o4.np	Method	AAT/NAP
Start	11284	End	11749
GI	5042454	Score	230

Exons 11284..11337, 11574..11749

GI Descrip. (AC007789) putative polyprotein [Oryza sativa]

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
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Gene No.	94715	Strand	-
Start	12640	End	15559
Name	OJ000301_25.0410.C12.o1.gp	Method	AAT/GAP
Start	12640	End	15559
GI	13624_1.R1084	Score	1025
Exons	12640..12927, 13265..13386, 14779..14801, 14910..15055, 15532..15559		
GI Descrip.	'3075382 2.0e-10 (AC002505) putative peroxisome assembly protein PER8 [Arabidopsis thaliana] >gi_3075384 (AC004484) putative peroxisome assembly protein PER8 [Arabidopsis thaliana]'		

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94715	Strand	-
Start	12640	End	15559
Name	OJ000301_25.0410.C12.o5.np	Method	AAT/NAP
Start	12865	End	14944
GI	7451052	Score	248
Exons	12865..12927, 13265..13386, 14779..14801, 14910..14944		
GI Descrip.	small nuclear ribonucleoprotein E homolog - alfalfa		

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94716	Strand	-
Start	24311	End	25266
Name	OJ000301_25.0410.C12.o2.tw	Method	TBLASTX:Wheat
Start	1365	End	22041
GI	none	Score	34
Exons	1365..1442, 1429..1458, 2783..2938, 2963..3001, 12068..12148, 21571..22041, 21573..21995, 21946..22038		

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94716	Strand	-
Start	24311	End	25266
Name	OJ000301_25.0410.C12.o8.tw	Method	TBLASTX:Wheat
Start	4913	End	5515
GI	none	Score	85
Exons	4913..5038, 4917..5039, 5205..5375, 5224..5514, 5231..5515, 5232..5375, 5412..5510, 5434..5511		

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94716	Strand	-
Start	24311	End	25266
Name	OJ000301_25.0410.C12.o5.tw	Method	TBLASTX:Wheat
Start	5516	End	5897
GI	none	Score	124
Exons	5516..5896, 5661..5795, 5841..5897		

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94716	Strand	-
Start	24311	End	25266
Name	OJ000301_25.0410.C12.o3.tm	Method	TBLASTX:Maize
Start	5711	End	6034
GI	none	Score	202
Exons	5711..6034, 5724..6005		

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94716	Strand	-
Start	24311	End	25266



Name	OJ000301_25.0410.C12.o10.tw	Method	TBLASTX:Wheat
Start	6227	End	6539
GI	none	Score	67
Exons	6227..6487, 6363..6539		

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94716	Strand	-
Start	24311	End	25266
Name	OJ000301_25.0410.C12.o3.ts	Method	TBLASTX:Soybean
Start	6287	End	6853
GI	5666795	Score	68
Exons	6287..6487, 6542..6679, 6755..6853		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94716	Strand	-
Start	24311	End	25266
Name	OJ000301_25.0410.C12.o6.tw	Method	TBLASTX:Wheat
Start	6542	End	6976
GI	none	Score	64
Exons	6542..6691, 6543..6680, 6725..6976, 6735..6911, 6779..6976		

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94716	Strand	-
Start	24311	End	25266
Name	OJ000301_25.0410.C12.o1.ts	Method	TBLASTX:Soybean
Start	7601	End	7972
GI	none	Score	91
Exons	7601..7972, 7797..7955		

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94716	Strand	-
Start	24311	End	25266
Name	OJ000301_25.0410.C12.o3.tw	Method	TBLASTX:Wheat
Start	7631	End	8051
GI	none	Score	315
Exons	7631..8050, 7638..8051		

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94716	Strand	-
Start	24311	End	25266
Name	OJ000301_25.0410.C12.o4.tm	Method	TBLASTX:Maize
Start	7724	End	8108
GI	none	Score	231
Exons	7724..8107, 7743..8108		

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94716	Strand	-
Start	24311	End	25266
Name	OJ000301_25.0410.C12.o2.tm	Method	TBLASTX:Maize
Start	8135	End	8491
GI	none	Score	122
Exons	8135..8440, 8135..8491, 8145..8456		

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94716	Strand	-
Start	24311	End	25266

Name	OJ000301_25.0410.C12.o1.tw	Method	TBLASTX:Wheat
Start	8159	End	8621
GI	none	Score	222
Exons	8159..8620, 8165..8620, 8166..8621		
Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94716	Strand	-
Start	24311	End	25266
Name	OJ000301_25.0410.C12.o4.tw	Method	TBLASTX:Wheat
Start	8813	End	9272
GI	none	Score	172
Exons	8813..9271, 8817..9077, 9135..9272		
Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94716	Strand	-
Start	24311	End	25266
Name	OJ000301_25.0410.C12.o7.tw	Method	TBLASTX:Wheat
Start	10010	End	10402
GI	none	Score	93
Exons	10010..10267, 10044..10283, 10250..10348, 10251..10343, 10355..10402		
Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94716	Strand	-
Start	24311	End	25266
Name	OJ000301_25.0410.C12.o7.tm	Method	TBLASTX:Maize
Start	10112	End	10397
GI	none	Score	92
Exons	10112..10360, 10113..10397		
Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94716	Strand	-
Start	24311	End	25266
Name	OJ000301_25.0410.C12.o9.tw	Method	TBLASTX:Wheat
Start	12725	End	14998
GI	none	Score	51
Exons	12725..12790, 12726..12785, 12844..12927, 12847..12927, 13257..13385, 13262..13393, 14731..14814, 14774..14803, 14781..14816, 14898..14954, 14908..14964, 14908..14952, 14909..14965, 14915..14998		
Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94716	Strand	-
Start	24311	End	25266
Name	OJ000301_25.0410.C12.o6.tm	Method	TBLASTX:Maize
Start	12854	End	14945
GI	none	Score	97
Exons	12854..12952, 12865..12927, 13257..13385, 13262..13393, 13264..13386, 13265..13387, 14772..14816, 14898..14945, 14909..14944		
Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94716	Strand	-
Start	24311	End	25266
Name	OJ000301_25.0410.C12.o2.tc	Method	TBLASTX:Cress
Start	12875	End	14945
GI	none	Score	68

Exons 12875..12952, 12880..12927, 13257..13385, 13258..13389,  
13262..13387, 13262..13393, 14774..14803, 14775..14801,  
14898..14945, 14909..14944

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94716	Strand	-
Start	24311	End	25266
Name	OJ000301_25.0410.C12.o2.ts	Method	TBLASTX:Soybean
Start	12875	End	14957
GI	none	Score	65
Exons	12875..12928, 12880..12927, 13257..13385, 13261..13386, 13261..13389, 13262..13393, 14774..14803, 14898..14957, 14909..14950		

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94716	Strand	-
Start	24311	End	25266
Name	OJ000301_25.0410.C12.o1.tc	Method	TBLASTX:Cress
Start	15377	End	24270
GI	none	Score	139
Exons	15377..15487, 15396..15488, 15580..15615, 16357..16503, 16359..16442, 17004..17105, 17008..17103, 17581..17652, 18124..18222, 18126..18215, 18426..18542, 18427..18564, 18683..18727, 19039..19149, 19082..19150, 19233..19346, 19244..19345, 23687..23788, 23692..23778, 24133..24270		

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94716	Strand	-
Start	24311	End	25266
Name	OJ000301_25.0410.C12.o1.tm	Method	TBLASTX:Maize
Start	21487	End	21879
GI	none	Score	418
Exons	21487..21879, 21492..21701, 21753..21878		

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94716	Strand	-
Start	24311	End	25266
Name	OJ000301_25.0410.C12.o5.tm	Method	TBLASTX:Maize
Start	21934	End	22119
GI	none	Score	230
Exons	21934..22119, 21937..22080		

Seq. No.	44895	Seq. ID	OJ000301_25.0410.C12
Gene No.	94716	Strand	-
Start	24311	End	25266
Name	OJ000301_25.0410.C12.o5.gs	Method	GENSCAN
Start	24311	End	25266
GI	none	Score	.58
Exons	24311..24366, 24866..24999, 25205..25266		

Seq. No.	44896	Seq. ID	OJ000301_25.0410.C13
Gene No.	94717	Strand	+
Start	1	End	781
Name	OJ000301_25.0410.C13.o1.gp	Method	AAT/GAP
Start	1	End	781
GI	15225_1.R1084	Score	1459
Exons	1..781		

GI Descrip. '4582460/gb|AAD24844.1|AC007071\_16 6.0e-11 (AC007071) unknown protein [Arabidopsis thaliana]'

Seq. No.	44896	Seq. ID	OJ000301_25.0410.C13
Gene No.	94717	Strand	+
Start	1	End	781
Name	OJ000301_25.0410.C13.o1.np	Method	AAT/NAP
Start	1	End	627
GI	4582460	Score	252
Exons	1..627		
GI Descrip.	(AC007071) unknown protein [Arabidopsis thaliana]		

Seq. No.	44896	Seq. ID	OJ000301_25.0410.C13
Gene No.	94717	Strand	+
Start	1	End	781
Name	OJ000301_25.0410.C13.o1.gs	Method	GENSCAN
Start	37	End	642
GI	none	Score	1
Exons	37..642		

Seq. No.	44896	Seq. ID	OJ000301_25.0410.C13
Gene No.	94718	Strand	-
Start	1334	End	1564
Name	OJ000301_25.0410.C13.o1.tm	Method	TBLASTX:Maize
Start	1	End	360
GI	none	Score	359
Exons	1..360, 3..185, 237..350		

Seq. No.	44896	Seq. ID	OJ000301_25.0410.C13
Gene No.	94718	Strand	-
Start	1334	End	1564
Name	OJ000301_25.0410.C13.o1.tw	Method	TBLASTX:Wheat
Start	55	End	525
GI	none	Score	506
Exons	55..525, 57..479, 427..522		

Seq. No.	44896	Seq. ID	OJ000301_25.0410.C13
Gene No.	94718	Strand	-
Start	1334	End	1564
Name	OJ000301_25.0410.C13.o2.tm	Method	TBLASTX:Maize
Start	420	End	600
GI	none	Score	223
Exons	420..479, 421..564, 424..600		

Seq. No.	44896	Seq. ID	OJ000301_25.0410.C13
Gene No.	94718	Strand	-
Start	1334	End	1564
Name	OJ000301_25.0410.C13.o2.gs	Method	GENSCAN
Start	1334	End	1564
GI	none	Score	.71
Exons	1334..1445, 1545..1564		

Seq. No.	44897	Seq. ID	OJ000301_25.0410.C14
Gene No.	94719	Strand	+
Start	1	End	3490
Name	OJ000301_25.0410.C14.o1.np	Method	AAT/NAP
Start	1	End	1564

GI 4895202 Score 136  
 Exons 1..114, 145..310, 1516..1564  
 GI Descrip. (AC007661) hypothetical protein [Arabidopsis thaliana]

Seq. No. 44897 Seq. ID OJ000301\_25.0410.C14  
 Gene No. 94719 Strand +  
 Start 1 End 3490  
 Name OJ000301\_25.0410.C14.o1.gs Method GENSCAN  
 Start 43 End 679  
 GI none Score .4  
 Exons 43..458, 556..679

Seq. No. 44897 Seq. ID OJ000301\_25.0410.C14  
 Gene No. 94719 Strand +  
 Start 1 End 3490  
 Name OJ000301\_25.0410.C14.o2.np Method AAT/NAP  
 Start 1398 End 3490  
 GI 7523517 Score 254  
 Exons 1398..1697, 1842..1896, 3472..3490  
 GI Descrip. (AP001633) hypothetical protein [Oryza sativa]

Seq. No. 44897 Seq. ID OJ000301\_25.0410.C14  
 Gene No. 94719 Strand +  
 Start 1 End 3490  
 Name OJ000301\_25.0410.C14.o2.gs Method GENSCAN  
 Start 2015 End 2878  
 GI none Score .81  
 Exons 2015..2878

Seq. No. 44897 Seq. ID OJ000301\_25.0410.C14  
 Gene No. 94720 Strand +  
 Start 3848 End 4688  
 Name OJ000301\_25.0410.C14.o3.gs Method GENSCAN  
 Start 3848 End 4688  
 GI none Score .67  
 Exons 3848..3908, 4152..4333, 4476..4688

Seq. No. 44897 Seq. ID OJ000301\_25.0410.C14  
 Gene No. 94721 Strand +  
 Start 13422 End 20177  
 Name OJ000301\_25.0410.C14.o6.gs Method GENSCAN  
 Start 13422 End 20177  
 GI none Score .92  
 Exons 13422..13531, 15354..15404, 15526..15767, 16366..16535,  
 17385..17518, 17610..17857, 18287..18392, 18480..18618,  
 18746..18873, 18960..19182, 19585..19653, 20073..20177

Seq. No. 44897 Seq. ID OJ000301\_25.0410.C14  
 Gene No. 94721 Strand +  
 Start 13422 End 20177  
 Name OJ000301\_25.0410.C14.o1.gp Method AAT/GAP  
 Start 17355 End 17840  
 GI 2312190 Score 602  
 Exons 17355..17518, 17610..17840

Seq. No. 44897 Seq. ID OJ000301\_25.0410.C14  
 Gene No. 94721 Strand +

Start	13422	End	20177
Name	OJ000301_25.0410.C14.o2.gp	Method	AAT/GAP
Start	18966	End	19453
GI	none	Score	912
Exons	18966..19453		

Seq. No.	44897	Seq. ID	OJ000301_25.0410.C14
Gene No.	94722	Strand	+
Start	20865	End	22224
Name	OJ000301_25.0410.C14.o5.np	Method	AAT/NAP
Start	20865	End	22224
GI	4895204	Score	117
Exons	20865..21231, 21967..22224		
GI Descrip.	(AC007661) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	44897	Seq. ID	OJ000301_25.0410.C14
Gene No.	94723	Strand	-
Start	5449	End	6159
Name	OJ000301_25.0410.C14.o4.gs	Method	GENSCAN
Start	5449	End	6138
GI	none	Score	.99
Exons	5449..6138		

Seq. No.	44897	Seq. ID	OJ000301_25.0410.C14
Gene No.	94723	Strand	-
Start	5449	End	6159
Name	OJ000301_25.0410.C14.o3.np	Method	AAT/NAP
Start	5986	End	6159
GI	4895202	Score	62
Exons	5986..6159		
GI Descrip.	(AC007661) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	44897	Seq. ID	OJ000301_25.0410.C14
Gene No.	94724	Strand	-
Start	7261	End	10934
Name	OJ000301_25.0410.C14.o5.gs	Method	GENSCAN
Start	7261	End	10934
GI	none	Score	.82
Exons	7261..7316, 8351..8415, 10117..10288, 10351..10459, 10833..10934		

Seq. No.	44897	Seq. ID	OJ000301_25.0410.C14
Gene No.	94725	Strand	-
Start	11328	End	14566
Name	OJ000301_25.0410.C14.o4.np	Method	AAT/NAP
Start	11328	End	14566
GI	5852093	Score	48
Exons	11328..11348, 13075..13181, 13710..13803, 14542..14566		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	44897	Seq. ID	OJ000301_25.0410.C14
Gene No.	94726	Strand	-
Start	20901	End	22386
Name	OJ000301_25.0410.C14.o1.tm	Method	TBLASTX:Maize
Start	15650	End	17880
GI	none	Score	86
Exons	15650..15772, 15652..15765, 16359..16535, 16362..16538, 17384..17512, 17385..17513, 17390..17518, 17614..17880,		

17617..17862

Seq. No.	44897	Seq. ID	OJ000301_25.0410.C14
Gene No.	94726	Strand	-
Start	20901	End	22386
Name	OJ000301_25.0410.C14.o3.tc	Method	TBLASTX:Cress
Start	16316	End	16543
GI	none	Score	236
Exons	16316..16543, 16353..16538		

Seq. No.	44897	Seq. ID	OJ000301_25.0410.C14
Gene No.	94726	Strand	-
Start	20901	End	22386
Name	OJ000301_25.0410.C14.o2.ts	Method	TBLASTX:Soybean
Start	16358	End	17488
GI	none	Score	261
Exons	16358..16534, 16359..16538, 16365..16538, 16366..16551, 17384..17488, 17385..17486		

Seq. No.	44897	Seq. ID	OJ000301_25.0410.C14
Gene No.	94726	Strand	-
Start	20901	End	22386
Name	OJ000301_25.0410.C14.o2.tc	Method	TBLASTX:Cress
Start	17653	End	18336
GI	none	Score	269
Exons	17653..17856, 17695..17838, 17721..17846, 18277..18336		

Seq. No.	44897	Seq. ID	OJ000301_25.0410.C14
Gene No.	94726	Strand	-
Start	20901	End	22386
Name	OJ000301_25.0410.C14.o3.ts	Method	TBLASTX:Soybean
Start	17721	End	17847
GI	none	Score	100
Exons	17721..17846, 17721..17846, 17722..17847		

Seq. No.	44897	Seq. ID	OJ000301_25.0410.C14
Gene No.	94726	Strand	-
Start	20901	End	22386
Name	OJ000301_25.0410.C14.o3.tm	Method	TBLASTX:Maize
Start	18220	End	18623
GI	none	Score	98
Exons	18220..18255, 18274..18390, 18290..18391, 18321..18392, 18477..18623, 18478..18621		

Seq. No.	44897	Seq. ID	OJ000301_25.0410.C14
Gene No.	94726	Strand	-
Start	20901	End	22386
Name	OJ000301_25.0410.C14.o1.ts	Method	TBLASTX:Soybean
Start	18286	End	19209
GI	none	Score	96
Exons	18286..18354, 18289..18393, 18303..18395, 18324..18398, 18474..18575, 18475..18624, 18477..18617, 18735..18872, 18737..18874, 18737..18877, 18944..19192, 18958..19188, 18960..19208, 18961..19209		

Seq. No.	44897	Seq. ID	OJ000301_25.0410.C14
Gene No.	94726	Strand	-

Start	20901	End	22386
Name	OJ000301_25.0410.C14.o1.tc	Method	TBLASTX:Cress
Start	18505	End	19217
GI	none	Score	159
Exons	18505..18624, 18507..18617, 18523..18627, 18742..18873, 18743..18874, 18743..18874, 18958..19206, 18960..19217, 18961..19209		

Seq. No.	44897	Seq. ID	OJ000301_25.0410.C14
Gene No.	94726	Strand	-
Start	20901	End	22386
Name	OJ000301_25.0410.C14.o2.tm	Method	TBLASTX:Maize
Start	18830	End	19361
GI	none	Score	71
Exons	18830..18874, 18830..18877, 18960..19223, 18960..19223, 18961..19224, 19308..19361		

Seq. No.	44897	Seq. ID	OJ000301_25.0410.C14
Gene No.	94726	Strand	-
Start	20901	End	22386
Name	OJ000301_25.0410.C14.o7.gs	Method	GENSCAN
Start	20901	End	22386
GI	none	Score	.89
Exons	20901..21358, 21551..21835, 22185..22386		

Seq. No.	44898	Seq. ID	OJ000301_25.0410.C15
Gene No.	94727	Strand	-
Start	3715	End	4042
Name	OJ000301_25.0410.C15.o1.tm	Method	TBLASTX:Maize
Start	3715	End	4042
GI	none	Score	41
Exons	3715..3738, 3740..3778, 3784..3891, 3785..3898, 3944..4042		

Seq. No.	44899	Seq. ID	OJ000301_24.0403.C2
Gene No.	94728	Strand	+
Start	3843	End	11288
Name	OJ000301_24.0403.C2.o2.gs	Method	GENSCAN
Start	3843	End	10156
GI	none	Score	.4
Exons	3843..3928, 6732..6852, 7683..8134, 8249..8312, 8382..8759, 9110..9168, 9441..9646, 9881..10051, 10140..10156		

Seq. No.	44899	Seq. ID	OJ000301_24.0403.C2
Gene No.	94728	Strand	+
Start	3843	End	11288
Name	OJ000301_24.0403.C2.o1.np	Method	AAT/NAP
Start	4906	End	10432
GI	6069646	Score	433
Exons	4906..5042, 8676..8837, 9442..10432		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	44899	Seq. ID	OJ000301_24.0403.C2
Gene No.	94728	Strand	+



Start	3843	End	11288
Name	OJ000301_24.0403.C2.o2.np		Method AAT/NAP
Start	8297	End	11288
GI	7295202	Score	65
Exons	8297..8351, 10591..10679, 10803..10917, 11003..11163, 11251..11288		
GI Descrip.	(AE003558) ESTS:149B10S gene product [Drosophila melanogaster]		

Seq. No.	44899	Seq. ID	OJ000301_24.0403.C2
Gene No.	94729	Strand	-
Start	338	End	2534
Name	OJ000301_24.0403.C2.o1.gs	Method	GENSCAN
Start	338	End	2534
GI	none	Score	.45
Exons	338..423, 1114..2534		

Seq. No.	44899	Seq. ID	OJ000301_24.0403.C2
Gene No.	94730	Strand	-
Start	9088	End	9170
Name	OJ000301_24.0403.C2.o1.gp	Method	AAT/GAP
Start	9088	End	9170
GI	LIB3479-006-Q6-K1-B11	Score	88
Exons	9088..9170		
GI Descrip.	'5734616/dbj AP000391.1 AP000391 1.0e-110 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	44899	Seq. ID	OJ000301_24.0403.C2
Gene No.	94731	Strand	-
Start	10354	End	10654
Name	OJ000301_24.0403.C2.o3.tm	Method	TBLASTX:Maize
Start	9157	End	9543
GI	none	Score	296
Exons	9157..9543, 9282..9467		

Seq. No.	44899	Seq. ID	OJ000301_24.0403.C2
Gene No.	94731	Strand	-
Start	10354	End	10654
Name	OJ000301_24.0403.C2.o2.tm	Method	TBLASTX:Maize
Start	9832	End	10401
GI	none	Score	86
Exons	9832..9924, 9951..10073, 9952..10188, 10207..10401		

Seq. No.	44899	Seq. ID	OJ000301_24.0403.C2
Gene No.	94731	Strand	-
Start	10354	End	10654
Name	OJ000301_24.0403.C2.o3.gs	Method	GENSCAN
Start	10354	End	10654
GI	none	Score	.75
Exons	10354..10654		

Seq. No.	44899	Seq. ID	OJ000301_24.0403.C2
Gene No.	94732	Strand	-
Start	10845	End	11287
Name	OJ000301_24.0403.C2.o1.tm	Method	TBLASTX:Maize
Start	10845	End	11287
GI	none	Score	85
Exons	10845..10919, 10846..10935, 10846..10935, 10985..11149,		

11015..11164, 11016..11159, 11017..11163, 11248..11286,  
11249..11287, 11249..11287

Seq. No.	44900	Seq. ID	OJ000301_24.0403.C3
Gene No.	94733	Strand	+
Start	72	End	3476
Name	OJ000301_24.0403.C3.o1.gs	Method	GENSCAN
Start	72	End	3476
GI	none	Score	.75
Exons	72..1517, 1812..1945, 2022..2074, 2135..2258, 3245..3476		

Seq. No.	44900	Seq. ID	OJ000301_24.0403.C3
Gene No.	94734	Strand	-
Start	3751	End	3927
Name	OJ000301_24.0403.C3.o2.gs	Method	GENSCAN
Start	3751	End	3927
GI	none	Score	.99
Exons	3751..3927		

Seq. No.	44901	Seq. ID	OJ000301_24.0403.C4
Gene No.	94735	Strand	+
Start	575	End	1426
Name	OJ000301_24.0403.C4.o1.gs	Method	GENSCAN
Start	575	End	1426
GI	none	Score	.4
Exons	575..632, 1323..1426		

Seq. No.	44901	Seq. ID	OJ000301_24.0403.C4
Gene No.	94736	Strand	+
Start	6161	End	7794
Name	OJ000301_24.0403.C4.o3.gs	Method	GENSCAN
Start	6161	End	7794
GI	none	Score	.55
Exons	6161..6383, 6485..6942, 7148..7542, 7632..7794		

Seq. No.	44901	Seq. ID	OJ000301_24.0403.C4
Gene No.	94737	Strand	-
Start	3433	End	5043
Name	OJ000301_24.0403.C4.o2.gs	Method	GENSCAN
Start	3433	End	5043
GI	none	Score	.82
Exons	3433..3969, 4466..4757, 4847..5043		

Seq. No.	44901	Seq. ID	OJ000301_24.0403.C4
Gene No.	94737	Strand	-
Start	3433	End	5043
Name	OJ000301_24.0403.C4.o1.gp	Method	AAT/GAP
Start	4259	End	4329
GI	LIB3477-003-P1-K1-E9	Score	87
Exons	4259..4329		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	44902	Seq. ID	OJ000301_24.0403.C5
Gene No.	94738	Strand	+
Start	2333	End	9309

Name	OJ000301_24.0403.C5.o1.np	Method	AAT/NAP
Start	2333	End	9309
GI	6466937	Score	519
Exons	2333..2365; 5345..5965, 9283..9309		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	44902	Seq. ID	OJ000301_24.0403.C5
Gene No.	94739	Strand	+
Start	9574	End	10510
Name	OJ000301_24.0403.C5.o1.tm	Method	TBLASTX:Maize
Start	5360	End	5827
GI	none	Score	411
Exons	5360..5827, 5569..5805		

Seq. No.	44902	Seq. ID	OJ000301_24.0403.C5
Gene No.	94739	Strand	+
Start	9574	End	10510
Name	OJ000301_24.0403.C5.o1.ts	Method	TBLASTX:Soybean
Start	5489	End	5689
GI	none	Score	193
Exons	5489..5689, 5557..5688		

Seq. No.	44902	Seq. ID	OJ000301_24.0403.C5
Gene No.	94739	Strand	+
Start	9574	End	10510
Name	OJ000301_24.0403.C5.o1.tw	Method	TBLASTX:Wheat
Start	5560	End	5875
GI	none	Score	305
Exons	5560..5874, 5567..5875		

Seq. No.	44902	Seq. ID	OJ000301_24.0403.C5
Gene No.	94739	Strand	+
Start	9574	End	10510
Name	OJ000301_24.0403.C5.o3.gs	Method	GENSCAN
Start	9574	End	10510
GI	none	Score	.65
Exons	9574..9645, 9661..9812, 10198..10510		

Seq. No.	44903	Seq. ID	OJ000301_24.0403.C6
Gene No.	94740	Strand	+
Start	696	End	1052
Name	OJ000301_24.0403.C6.o1.gs	Method	GENSCAN
Start	696	End	1052
GI	none	Score	.71
Exons	696..1052		

Seq. No.	44903	Seq. ID	OJ000301_24.0403.C6
Gene No.	94741	Strand	-
Start	798	End	2626
Name	OJ000301_24.0403.C6.o1.tm	Method	TBLASTX:Maize
Start	579	End	2208
GI	none	Score	53
Exons	579..677, 715..753, 719..757, 786..1046, 793..1071, 795..1058, 1646..1951, 1648..1953, 1648..1950, 1896..1952, 2024..2203, 2028..2207, 2029..2208, 2029..2205		

Seq. No.	44903	Seq. ID	OJ000301_24.0403.C6
Gene No.	94741	Strand	-
Start	798	End	2626
Name	OJ000301_24.0403.C6.o1.tc	Method	TBLASTX:Cress
Start	778	End	2208
GI	none	Score	142
Exons	778..1071, 807..1058, 865..1062, 1646..1951, 1646..1951, 1648..1956, 2015..2200, 2024..2203, 2029..2205, 2041..2208		

Seq. No.	44903	Seq. ID	OJ000301_24.0403.C6
Gene No.	94741	Strand	-
Start	798	End	2626
Name	OJ000301_24.0403.C6.o1.ts	Method	TBLASTX:Soybean
Start	795	End	2208
GI	none	Score	128
Exons	795..1058, 808..993, 957..1046, 1648..1956, 1649..1951, 1651..1953, 2015..2203, 2024..2203, 2028..2207, 2029..2208, 2029..2205		

Seq. No.	44903	Seq. ID	OJ000301_24.0403.C6
Gene No.	94741	Strand	-
Start	798	End	2626
Name	OJ000301_24.0403.C6.o1.np	Method	AAT/NAP
Start	798	End	2626
GI	6693032	Score	900
Exons	798..1043, 1651..1949, 2031..2291, 2567..2626		
GI Descrip.	(AC012375) T22C5.23 [Arabidopsis thaliana]		

Seq. No.	44903	Seq. ID	OJ000301_24.0403.C6
Gene No.	94741	Strand	-
Start	798	End	2626
Name	OJ000301_24.0403.C6.o1.tw	Method	TBLASTX:Wheat
Start	807	End	1692
GI	none	Score	62
Exons	807..1058, 1648..1692		

Seq. No.	44903	Seq. ID	OJ000301_24.0403.C6
Gene No.	94741	Strand	-
Start	798	End	2626
Name	OJ000301_24.0403.C6.o1.gp	Method	AAT/GAP
Start	920	End	1898
GI	LIB3434-031-P1-K1-F8	Score	703
Exons	920..1043, 1651..1898		
GI Descrip.	'4884966/gb AAD31896.1 AF145478_1 6.0e-42 (AF145478) calcium ATPase [Mesembryanthemum crystallinum]'		

Seq. No.	44903	Seq. ID	OJ000301_24.0403.C6
Gene No.	94741	Strand	-
Start	798	End	2626
Name	OJ000301_24.0403.C6.o2.gs	Method	GENSCAN
Start	1440	End	2202
GI	none	Score	.82
Exons	1440..1454, 1651..1949, 2031..2202		

Seq. No.	44904	Seq. ID	OJ000301_24.0403.C7
Gene No.	94742	Strand	-
Start	1	End	3114

Name	OJ000301_24.0403.C7.o1.np	Method	AAT/NAP
Start	1	End	3108
GI	6693032	Score	2709
Exons	1..40, 105..2061, 2163..2238, 2932..3108		
GI Descrip.	(AC012375) T22C5.23 [Arabidopsis thaliana]		

Seq. No.	44904	Seq. ID	OJ000301_24.0403.C7
Gene No.	94742	Strand	-
Start	1	End	3114
Name	OJ000301_24.0403.C7.o1.tc	Method	TBLASTX:Cress
Start	1	End	3108
GI	none	Score	92
Exons	1..30, 123..161, 149..2065, 164..361, 168..452, 480..884, 945..2048, 1931..2053, 2188..2241, 2935..3108, 2948..3088		

Seq. No.	44904	Seq. ID	OJ000301_24.0403.C7
Gene No.	94742	Strand	-
Start	1	End	3114
Name	OJ000301_24.0403.C7.o2.tm	Method	TBLASTX:Maize
Start	107	End	778
GI	none	Score	598
Exons	107..778, 153..776, 182..778		

Seq. No.	44904	Seq. ID	OJ000301_24.0403.C7
Gene No.	94742	Strand	-
Start	1	End	3114
Name	OJ000301_24.0403.C7.o2.ts	Method	TBLASTX:Soybean
Start	107	End	685
GI	none	Score	492
Exons	107..685, 168..683		

Seq. No.	44904	Seq. ID	OJ000301_24.0403.C7
Gene No.	94742	Strand	-
Start	1	End	3114
Name	OJ000301_24.0403.C7.o1.gs	Method	GENSCAN
Start	260	End	3108
GI	none	Score	.44
Exons	260..2061, 2184..2238, 2932..3108		

Seq. No.	44904	Seq. ID	OJ000301_24.0403.C7
Gene No.	94742	Strand	-
Start	1	End	3114
Name	OJ000301_24.0403.C7.o1.gp	Method	AAT/GAP
Start	355	End	814
GI	2428315	Score	874
Exons	355..814		
GI Descrip.	4884966/gb AAD31896.1 AF145478_1 6.0e-42 (AF145478). calcium ATPase [Mesembryanthemum crystallinum]		

Seq. No.	44904	Seq. ID	OJ000301_24.0403.C7
Gene No.	94742	Strand	-
Start	1	End	3114
Name	OJ000301_24.0403.C7.o1.tw	Method	TBLASTX:Wheat
Start	665	End	1011
GI	none	Score	400
Exons	665..1003, 665..1009, 667..1011		

Seq. No.	44904	Seq. ID	OJ000301_24.0403.C7
Gene No.	94742	Strand	-
Start	1	End	3114
Name	OJ000301_24.0403.C7.o1.ts	Method	TBLASTX:Soybean
Start	690	End	1445
GI	none	Score	176
Exons	690..875, 690..1052, 692..1444, 695..1444, 945..1445		

Seq. No.	44904	Seq. ID	OJ000301_24.0403.C7
Gene No.	94742	Strand	-
Start	1	End	3114
Name	OJ000301_24.0403.C7.o1.tm	Method	TBLASTX:Maize
Start	782	End	1586
GI	none	Score	382
Exons	782..1585, 812..1570, 1182..1586		

Seq. No.	44904	Seq. ID	OJ000301_24.0403.C7
Gene No.	94742	Strand	-
Start	1	End	3114
Name	OJ000301_24.0403.C7.o3.ts	Method	TBLASTX:Soybean
Start	1536	End	1993
GI	none	Score	195
Exons	1536..1811, 1538..1993		

Seq. No.	44904	Seq. ID	OJ000301_24.0403.C7
Gene No.	94742	Strand	-
Start	1	End	3114
Name	OJ000301_24.0403.C7.o3.tm	Method	TBLASTX:Maize
Start	1742	End	2003
GI	none	Score	172
Exons	1742..2002, 1746..2003		

Seq. No.	44904	Seq. ID	OJ000301_24.0403.C7
Gene No.	94742	Strand	-
Start	1	End	3114
Name	OJ000301_24.0403.C7.o4.ts	Method	TBLASTX:Soybean
Start	1997	End	3114
GI	none	Score	122
Exons	1997..2047, 2185..2241, 2944..3075, 2948..3076, 3082..3114		

Seq. No.	44904	Seq. ID	OJ000301_24.0403.C7
Gene No.	94742	Strand	-
Start	1	End	3114
Name	OJ000301_24.0403.C7.o4.tm	Method	TBLASTX:Maize
Start	2188	End	3108
GI	none	Score	65
Exons	2188..2238, 2189..2239, 2930..3088, 2932..3108		

Seq. No.	44905	Seq. ID	OJ000301_24.0403.C8
Gene No.	94743	Strand	+
Start	254	End	429
Name	OJ000301_24.0403.C8.o1.gs	Method	GENSCAN
Start	254	End	429
GI	none	Score	.73
Exons	254..429		

Seq. No.	44905	Seq. ID	OJ000301_24.0403.C8
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Gene No.	94744	Strand	-
Start	2534	End	9959
Name	OJ000301_24.0403.C8.o2.gs	Method	GENSCAN
Start	2534	End	9959
GI	none	Score	.57
Exons	2534..2982, 3174..3293, 3381..3623, 3938..4190, 4339..4690, 4695..4722, 5703..5748, 5881..5982, 6055..6330, 6815..6888, 7647..7872, 7980..8056, 8291..8593, 9329..9959		

Seq. No.	44905	Seq. ID	OJ000301_24.0403.C8
Gene No.	94744	Strand	-
Start	2534	End	9959
Name	OJ000301_24.0403.C8.o1.np	Method	AAT/NAP
Start	2537	End	6191
GI	4006861	Score	1281
Exons	2537..2982, 3174..3267, 3354..3623, 3938..4190, 4339..4690, 5280..5358, 5703..5748, 5881..5982, 6120..6191		
GI Descrip.	(Z99707) tubulin-like protein [Arabidopsis thaliana]		

Seq. No.	44905	Seq. ID	OJ000301_24.0403.C8
Gene No.	94744	Strand	-
Start	2534	End	9959
Name	OJ000301_24.0403.C8.o1.gp	Method	AAT/GAP
Start	3264	End	4420
GI	428723	Score	626
Exons	3264..3293, 3381..3623, 4339..4420		
GI Descrip.	4006861/emb CAB16779.1  3.0e-15 (Z99707) tubulin-like protein [Arabidopsis thaliana]		

Seq. No.	44905	Seq. ID	OJ000301_24.0403.C8
Gene No.	94744	Strand	-
Start	2534	End	9959
Name	OJ000301_24.0403.C8.o2.gp	Method	AAT/GAP
Start	5777	End	6294
GI	LIB3479-005-Q6-K1-E5	Score	450
Exons	5777..5982, 6120..6294		
GI Descrip.	'4006861/emb CAB16779.1  2.0e-20 (Z99707) tubulin-like protein [Arabidopsis thaliana]'		

Seq. No.	44905	Seq. ID	OJ000301_24.0403.C8
Gene No.	94744	Strand	-
Start	2534	End	9959
Name	OJ000301_24.0403.C8.o3.gp	Method	AAT/GAP
Start	5886	End	6378
GI	LIB3479-005-Q6-K1-E5	Score	574
Exons	5886..5982, 6120..6378		
GI Descrip.	'4006861/emb CAB16779.1  2.0e-20 (Z99707) tubulin-like protein [Arabidopsis thaliana]'		

Seq. No.	44905	Seq. ID	OJ000301_24.0403.C8
Gene No.	94744	Strand	-
Start	2534	End	9959
Name	OJ000301_24.0403.C8.o2.np	Method	AAT/NAP
Start	6091	End	9896
GI	4335773	Score	186
Exons	6091..6365, 7564..7599, 7733..7883, 7970..8056, 8291..8567, 9277..9440, 9483..9603, 9698..9896		

GI Descrip. (AC006284) unknown protein [Arabidopsis thaliana]

Seq. No.	44905	Seq. ID	OJ000301_24.0403.C8
Gene No.	94744	Strand	-
Start	2534	End	9959
Name	OJ000301_24.0403.C8.o4.gp	Method	AAT/GAP
Start	9346	End	9811
GI	none	Score	643
Exons	9346..9603, 9698..9811		

Seq. No.	44905	Seq. ID	OJ000301_24.0403.C8
Gene No.	94745	Strand	-
Start	11337	End	13923
Name	OJ000301_24.0403.C8.o1.tc	Method	TBLASTX:Cress
Start	2520	End	2965
GI	none	Score	217
Exons	2520..2915, 2528..2914, 2852..2965		

Seq. No.	44905	Seq. ID	OJ000301_24.0403.C8
Gene No.	94745	Strand	-
Start	11337	End	13923
Name	OJ000301_24.0403.C8.o1.ts	Method	TBLASTX:Soybean
Start	2549	End	2906
GI	none	Score	189
Exons	2549..2905, 2565..2906		

Seq. No.	44905	Seq. ID	OJ000301_24.0403.C8
Gene No.	94745	Strand	-
Start	11337	End	13923
Name	OJ000301_24.0403.C8.o1.tm	Method	TBLASTX:Maize
Start	2603	End	3514
GI	none	Score	198
Exons	2603..2809, 2604..2804, 2671..2805, 2810..2983, 2811..2984, 2812..2985, 3172..3294, 3186..3296, 3187..3300, 3377..3514, 3382..3513		

Seq. No.	44905	Seq. ID	OJ000301_24.0403.C8
Gene No.	94745	Strand	-
Start	11337	End	13923
Name	OJ000301_24.0403.C8.o2.tm	Method	TBLASTX:Maize
Start	3944	End	4513
GI	none	Score	79
Exons	3944..4033, 3945..4055, 3949..4056, 4029..4193, 4051..4191, 4052..4192, 4327..4506, 4337..4513, 4343..4495		

Seq. No.	44905	Seq. ID	OJ000301_24.0403.C8
Gene No.	94745	Strand	-
Start	11337	End	13923
Name	OJ000301_24.0403.C8.o3.tm	Method	TBLASTX:Maize
Start	7694	End	8067
GI	none	Score	74
Exons	7694..7747, 7730..7777, 7831..7875, 7832..7864, 7980..8060, 7980..8066, 7981..8067		

Seq. No.	44905	Seq. ID	OJ000301_24.0403.C8
Gene No.	94745	Strand	-
Start	11337	End	13923



Name	OJ000301_24.0403.C8.o3.gs	Method	GENSCAN
Start	11337	End	13923
GI	none	Score	.63
Exons	11337..11503, 13710..13923		

  

Seq. No.	44906	Seq. ID	OJ000301_24.0403.C11
Gene No.	94746	Strand	+
Start	4423	End	6671
Name	OJ000301_24.0403.C11.o1.gs	Method	GENSCAN
Start	4423	End	6671
GI	none	Score	.85
Exons	4423..4596, 4637..4783, 4923..5024, 5140..5193, 5309..5401, 5646..5738, 5931..6071, 6196..6294, 6381..6671		

  

Seq. No.	44906	Seq. ID	OJ000301_24.0403.C11
Gene No.	94746	Strand	+
Start	4423	End	6671
Name	OJ000301_24.0403.C11.o1.np	Method	AAT/NAP
Start	4423	End	6668
GI	7446439	Score	1276
Exons	4423..4596, 4709..4783, 4923..5024, 5140..5193, 5309..5401, 5646..5738, 5967..6071, 6196..6294, 6381..6668		
GI Descrip.	probable serine/threonine-specific protein kinase (EC 2.7.1.-) F17I5.140 - Arabidopsis thaliana gi 3297819 emb CAA19877.1  (AL031032) protein kinase-like protein [Arabidopsis thaliana] gi 7270344 emb CAB80112.1  (AL161584) protein kinase-like protein [Arabidopsis thaliana]		

  

Seq. No.	44906	Seq. ID	OJ000301_24.0403.C11
Gene No.	94746	Strand	+
Start	4423	End	6671
Name	OJ000301_24.0403.C11.o1.gp	Method	AAT/GAP
Start	5286	End	5962
GI	LIB3433-020-P1-K1-D2	Score	771
Exons	5286..5401, 5646..5962		
GI Descrip.	'3297819/emb CAA19877.1  2.0e-28 (AL031032) protein kinase-like protein [Arabidopsis thaliana]'		

  

Seq. No.	44906	Seq. ID	OJ000301_24.0403.C11
Gene No.	94746	Strand	+
Start	4423	End	6671
Name	OJ000301_24.0403.C11.o2.gp	Method	AAT/GAP
Start	5971	End	6444
GI	2442470	Score	444
Exons	5971..6071, 6196..6294, 6381..6444		
GI Descrip.	3297819/emb CAA19877.1  2.0e-28 (AL031032) protein kinase-like protein [Arabidopsis thaliana]		

  

Seq. No.	44906	Seq. ID	OJ000301_24.0403.C11
Gene No.	94747	Strand	+
Start	7123	End	7614
Name	OJ000301_24.0403.C11.o3.gp	Method	AAT/GAP
Start	7123	End	7614
GI	uC-osflcyp160g01a1	Score	964
Exons	7123..7614		
GI Descrip.	'5670155/gb AF161269.1 AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		

Seq. No.	44906	Seq. ID	OJ000301_24.0403.C11
Gene No.	94748	Strand	-
Start	7227	End	10020
Name	OJ000301_24.0403.C11.o1.tc	Method	TBLASTX:Cress
Start	4423	End	6654
GI	none	Score	199
Exons	4423..4599, 4485..4592, 4702..4794, 4706..4795, 4920..5024, 4922..5023, 5137..5220, 5139..5237, 5292..5390, 5294..5401, 5308..5400, 5573..5734, 5625..5750, 5625..5738, 5964..6071, 5965..6072, 5966..6022, 6190..6294, 6192..6305, 6380..6544, 6381..6578, 6574..6654		

Seq. No.	44906	Seq. ID	OJ000301_24.0403.C11
Gene No.	94748	Strand	-
Start	7227	End	10020
Name	OJ000301_24.0403.C11.o2.tw	Method	TBLASTX:Wheat
Start	4450	End	5175
GI	none	Score	211
Exons	4450..4599, 4488..4595, 4702..4794, 4706..4795, 4920..5024, 4922..5023, 5137..5175, 5139..5174		

Seq. No.	44906	Seq. ID	OJ000301_24.0403.C11
Gene No.	94748	Strand	-
Start	7227	End	10020
Name	OJ000301_24.0403.C11.o3.tm	Method	TBLASTX:Maize
Start	4450	End	5750
GI	none	Score	232
Exons	4450..4599, 4488..4595, 4702..4794, 4706..4795, 4920..4994, 4922..4996, 4995..5024, 5137..5220, 5137..5214, 5139..5219, 5294..5401, 5308..5400, 5573..5740, 5592..5750		

Seq. No.	44906	Seq. ID	OJ000301_24.0403.C11
Gene No.	94748	Strand	-
Start	7227	End	10020
Name	OJ000301_24.0403.C11.o3.ts	Method	TBLASTX:Soybean
Start	4450	End	4975
GI	none	Score	199
Exons	4450..4599, 4488..4592, 4702..4794, 4706..4795, 4920..4973, 4922..4975		

Seq. No.	44906	Seq. ID	OJ000301_24.0403.C11
Gene No.	94748	Strand	-
Start	7227	End	10020
Name	OJ000301_24.0403.C11.o2.ts	Method	TBLASTX:Soybean
Start	5140	End	6575
GI	none	Score	88
Exons	5140..5220, 5143..5193, 5148..5219, 5294..5401, 5298..5414, 5308..5397, 5309..5413, 5573..5740, 5625..5750, 5964..6071, 5964..6071, 6190..6309, 6207..6308, 6378..6575, 6378..6464, 6380..6571		

Seq. No.	44906	Seq. ID	OJ000301_24.0403.C11
Gene No.	94748	Strand	-
Start	7227	End	10020
Name	OJ000301_24.0403.C11.o2.tm	Method	TBLASTX:Maize
Start	5967	End	6663

GI	none	Score	175
Exons	5967..6071, 5967..6071, 5974..6072, 6190..6294, 6193..6309, 6380..6565, 6381..6575, 6583..6663		

Seq. No.	44906	Seq. ID	OJ000301_24.0403.C11
Gene No.	94748	Strand	-
Start	7227	End	10020
Name	OJ000301_24.0403.C11.o4.tm	Method	TBLASTX:Maize
Start	7115	End	7394
GI	none	Score	63
Exons	7115..7168, 7116..7220, 7223..7336, 7224..7394, 7224..7346, 7360..7392		

Seq. No.	44906	Seq. ID	OJ000301_24.0403.C11
Gene No.	94748	Strand	-
Start	7227	End	10020
Name	OJ000301_24.0403.C11.o2.gs	Method	GENSCAN
Start	7227	End	9660
GI	none	Score	.9
Exons	7227..8059, 8306..8517, 8610..8740, 8779..9359, 9651..9660		

Seq. No.	44906	Seq. ID	OJ000301_24.0403.C11
Gene No.	94748	Strand	-
Start	7227	End	10020
Name	OJ000301_24.0403.C11.o2.np	Method	AAT/NAP
Start	7230	End	10020
GI	7485661	Score	1436
Exons	7230..8060, 8236..8507, 8606..9359, 9893..10020		
GI Descrip.	hypothetical protein F17M5.60 - Arabidopsis thaliana gi 4490297 emb CAB38788.1  (AL035678) putative protein [Arabidopsis thaliana] gi 7270278 emb CAB80047.1  (AL161583) putative protein [Arabidopsis thaliana]		

Seq. No.	44906	Seq. ID	OJ000301_24.0403.C11
Gene No.	94748	Strand	-
Start	7227	End	10020
Name	OJ000301_24.0403.C11.o3.tc	Method	TBLASTX:Cress
Start	7236	End	7616
GI	none	Score	132
Exons	7236..7343, 7381..7614, 7393..7488, 7395..7616		

Seq. No.	44906	Seq. ID	OJ000301_24.0403.C11
Gene No.	94748	Strand	-
Start	7227	End	10020
Name	OJ000301_24.0403.C11.o1.tw	Method	TBLASTX:Wheat
Start	7335	End	8039
GI	none	Score	518
Exons	7335..7730, 7336..7731, 7391..7732, 7391..7732, 7857..8039		

Seq. No.	44906	Seq. ID	OJ000301_24.0403.C11
Gene No.	94748	Strand	-
Start	7227	End	10020
Name	OJ000301_24.0403.C11.o1.ts	Method	TBLASTX:Soybean
Start	7339	End	9358
GI	none	Score	203
Exons	7339..7719, 7395..7718, 7488..7709, 7737..7796, 7749..7802, 7836..8060, 7842..8066, 7876..8061, 8283..8372, 8302..8373,		

8373..8513, 8376..8498, 8425..8508, 8609..8767, 8613..8765,  
8731..9357, 8747..9238, 9175..9357, 9269..9358

Seq. No.	44906	Seq. ID	OJ000301_24.0403.C11
Gene No.	94748	Strand	-
Start	7227	End	10020
Name	OJ000301_24.0403.C11.o1.tm	Method	TBLASTX:Maize
Start	7395	End	9358
GI	none	Score	418
Exons	7395..7565, 7395..7496, 7468..7794, 7468..8088, 7470..8054, 7873..8061, 8301..8534, 8302..8592, 8589..8765, 8609..8767, 8726..9004, 8745..9323, 8747..9358, 8761..9357		

Seq. No.	44906	Seq. ID	OJ000301_24.0403.C11
Gene No.	94748	Strand	-
Start	7227	End	10020
Name	OJ000301_24.0403.C11.o2.tc	Method	TBLASTX:Cress
Start	7662	End	8460
GI	none	Score	86
Exons	7662..8063, 7897..8061, 8301..8459, 8302..8460		

Seq. No.	44907	Seq. ID	OJ000301_24.0403.C12
Gene No.	94749	Strand	+
Start	1	End	1759
Name	OJ000301_24.0403.C12.o1.np	Method	AAT/NAP
Start	1	End	1146
GI	6742729	Score	954
Exons	1..1146		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	44907	Seq. ID	OJ000301_24.0403.C12
Gene No.	94749	Strand	+
Start	1	End	1759
Name	OJ000301_24.0403.C12.o2.tw	Method	TBLASTX:Wheat
Start	2	End	311
GI	none	Score	155
Exons	2..190, 3..191, 227..310, 228..311		

Seq. No.	44907	Seq. ID	OJ000301_24.0403.C12
Gene No.	94749	Strand	+
Start	1	End	1759
Name	OJ000301_24.0403.C12.o1.tm	Method	TBLASTX:Maize
Start	219	End	704
GI	none	Score	294
Exons	219..704, 236..412, 548..697		

Seq. No.	44907	Seq. ID	OJ000301_24.0403.C12
Gene No.	94749	Strand	+
Start	1	End	1759
Name	OJ000301_24.0403.C12.o1.gp	Method	AAT/GAP
Start	300	End	1759
GI	5002953	Score	1271
Exons	300..431, 690..1098, 1578..1759		
GI Descrip.	4680203/gb AAD27566.1 AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	44907	Seq. ID	OJ000301_24.0403.C12
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Gene No.	94749	Strand	+
Start	1	End	1759
Name	OJ000301_24.0403.C12.o1.tw	Method	TBLASTX:Wheat
Start	315	End	1534
GI	none	Score	442
Exons	315..812, 359..826, 875..1036, 892..1032, 1040..1231, 1075..1215, 1220..1267, 1271..1312, 1274..1312, 1336..1413, 1337..1441, 1442..1534		
Seq. No.	44907	Seq. ID	OJ000301_24.0403.C12
Gene No.	94749	Strand	+
Start	1	End	1759
Name	OJ000301_24.0403.C12.o1.tc	Method	TBLASTX:Cress
Start	602	End	1027
GI	none	Score	165
Exons	602..826, 606..812, 875..1027, 892..1014		
Seq. No.	44907	Seq. ID	OJ000301_24.0403.C12
Gene No.	94749	Strand	+
Start	1	End	1759
Name	OJ000301_24.0403.C12.o2.np	Method	AAT/NAP
Start	1043	End	1499
GI	4586022	Score	149
Exons	1043..1499		
GI Descrip.	(AC007170) En/Spm-like transposon protein [Arabidopsis thaliana]		
Seq. No.	44908	Seq. ID	OJ000301_24.0403.C13
Gene No.	94750	Strand	+
Start	1	End	9519
Name	OJ000301_24.0403.C13.o1.np	Method	AAT/NAP
Start	1	End	3023
GI	4680204	Score	58
Exons	1..31, 191..370, 2976..3023		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		
Seq. No.	44908	Seq. ID	OJ000301_24.0403.C13
Gene No.	94750	Strand	+
Start	1	End	9519
Name	OJ000301_24.0403.C13.o1.gs	Method	GENSCAN
Start	179	End	9519
GI	none	Score	.71
Exons	179..945, 1028..1180, 1278..1417, 2666..2827, 3528..3607, 4565..4694, 5517..5734, 5955..7137, 7272..7514, 8003..8575, 8675..8779, 8849..9519		
Seq. No.	44908	Seq. ID	OJ000301_24.0403.C13
Gene No.	94750	Strand	+
Start	1	End	9519
Name	OJ000301_24.0403.C13.o1.gp	Method	AAT/GAP
Start	1354	End	1874
GI	LIB3431-001-P1-N1-B5	Score	766
Exons	1354..1536, 1642..1874		
GI Descrip.	'4680203/gb AAD27566.1 AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'		
Seq. No.	44908	Seq. ID	OJ000301_24.0403.C13
Gene No.	94750	Strand	+

Start	1	End	9519
Name	OJ000301_24.0403.C13.o2.np	Method	AAT/NAP
Start	3509	End	4484
GI	7523486	Score	164
Exons	3509..3607, 3647..3813, 4371..4484		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	44908	Seq. ID	OJ000301_24.0403.C13
Gene No.	94751	Strand	+
Start	18728	End	18822
Name	OJ000301_24.0403.C13.o3.gp	Method	AAT/GAP
Start	18728	End	18822
GI	LIB3477-003-P1-K1-E9	Score	146
Exons	18728..18822		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	44908	Seq. ID	OJ000301_24.0403.C13
Gene No.	94752	Strand	-
Start	11240	End	14913
Name	OJ000301_24.0403.C13.o2.gp	Method	AAT/GAP
Start	11082	End	11333
GI	5004669	Score	478
Exons	11082..11333		

Seq. No.	44908	Seq. ID	OJ000301_24.0403.C13
Gene No.	94752	Strand	-
Start	11240	End	14913
Name	OJ000301_24.0403.C13.o2.gs	Method	GENSCAN
Start	11240	End	14913
GI	none	Score	.7
Exons	11240..12006, 12108..12186, 12408..12605, 14839..14913		

Seq. No.	44908	Seq. ID	OJ000301_24.0403.C13
Gene No.	94752	Strand	-
Start	11240	End	14913
Name	OJ000301_24.0403.C13.o3.np	Method	AAT/NAP
Start	13687	End	14777
GI	7523486	Score	142
Exons	13687..13722, 14475..14640, 14680..14777		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	44908	Seq. ID	OJ000301_24.0403.C13
Gene No.	94753	Strand	-
Start	16130	End	19286
Name	OJ000301_24.0403.C13.o3.gs	Method	GENSCAN
Start	16130	End	19286
GI	none	Score	.49
Exons	16130..16228, 17186..17233, 18900..19286		

Seq. No.	44909	Seq. ID	OJ000301_24.0403.C16
Gene No.	94754	Strand	+
Start	694	End	3136
Name	OJ000301_24.0403.C16.o1.np	Method	AAT/NAP
Start	694	End	3136
GI	4680203	Score	907

Exons 694..724, 1953..3136  
 GI Descrip. (AF114171) TNP2-like protein [Sorghum bicolor]

Seq. No.	44909	Seq. ID	OJ000301_24.0403.C16
Gene No.	94754	Strand	+
Start	694	End	3136
Name	OJ000301_24.0403.C16.o1.gs	Method	GENSCAN
Start	902	End	952
GI	none	Score	.51
Exons	902..952		

Seq. No.	44909	Seq. ID	OJ000301_24.0403.C16
Gene No.	94754	Strand	+
Start	694	End	3136
Name	OJ000301_24.0403.C16.o3.gs	Method	GENSCAN
Start	1953	End	3009
GI	none	Score	.5
Exons	1953..3009		

Seq. No.	44909	Seq. ID	OJ000301_24.0403.C16
Gene No.	94755	Strand	-
Start	1361	End	1650
Name	OJ000301_24.0403.C16.o2.gs	Method	GENSCAN
Start	1361	End	1650
GI	none	Score	.8
Exons	1361..1393, 1433..1472, 1586..1650		

Seq. No.	44909	Seq. ID	OJ000301_24.0403.C16
Gene No.	94756	Strand	
Start	2064	End	3134
Name	OJ000301_24.0403.C16.o2.tw	Method	TBLASTX:Wheat
Start	2064	End	3134
GI	none	Score	57
Exons	2064..2147, 2987..3124, 2988..3134, 3036..3128		

Seq. No.	44909	Seq. ID	OJ000301_24.0403.C16
Gene No.	94756	Strand	
Start	2064	End	3134
Name	OJ000301_24.0403.C16.o1.tw	Method	TBLASTX:Wheat
Start	2307	End	2987
GI	none	Score	228
Exons	2307..2705, 2405..2428, 2546..2707, 2753..2848, 2754..2858, 2862..2987		

Seq. No.	44909	Seq. ID	OJ000301_24.0403.C16
Gene No.	94756	Strand	
Start	2064	End	3134
Name	OJ000301_24.0403.C16.o1.ts	Method	TBLASTX:Soybean
Start	2405	End	2723
GI	none	Score	301
Exons	2405..2428, 2430..2705, 2432..2698, 2463..2723, 2486..2710		

Seq. No.	44909	Seq. ID	OJ000301_24.0403.C16
Gene No.	94756	Strand	
Start	2064	End	3134
Name	OJ000301_24.0403.C16.o1.tc	Method	TBLASTX:Cress
Start	2753	End	3083

GI	none	Score	312
Exons	2753..2890, 2754..3083, 2927..2986, 2937..3041, 3008..3082		
Seq. No.	44909	Seq. ID	OJ000301_24.0403.C16
Gene No.	94756	Strand	
Start	2064	End	3134
Name	OJ000301_24.0403.C16.o2.ts	Method	TBLASTX:Soybean
Start	2756	End	3005
GI	none	Score	213
Exons	2756..3001, 2757..3005		

Seq. No.	44909	Seq. ID	OJ000301_24.0403.C16
Gene No.	94756	Strand	
Start	2064	End	3134
Name	OJ000301_24.0403.C16.o1.tm	Method	TBLASTX:Maize
Start	2847	End	3130
GI	none	Score	251
Exons	2847..3128, 2858..3130		

Seq. No.	44910	Seq. ID	OJ000211_26.0405.C2
Gene No.	94757	Strand	+
Start	322	End	11279
Name	OJ000211_26.0405.C2.o1.gs	Method	GENSCAN
Start	322	End	11042
GI	none	Score	.75
Exons	322..382, 1086..1230, 2013..2376, 2904..2961, 3822..4060, 4594..4872, 5192..5407, 5492..5739, 6453..6640, 7121..7317, 7407..7596, 7693..7912, 7997..8204, 8336..8470, 8553..8744, 8827..8999, 9094..9282, 9367..9483, 9562..9646, 9728..9880, 9963..10088, 10219..10401, 10651..10812, 10926..11042		

Seq. No.	44910	Seq. ID	OJ000211_26.0405.C2
Gene No.	94757	Strand	+
Start	322	End	11279
Name	OJ000211_26.0405.C2.o3.gp	Method	AAT/GAP
Start	5326	End	7253
GI	none	Score	1170
Exons	5326..5407, 5492..5739, 6453..6640, 7121..7253		

Seq. No.	44910	Seq. ID	OJ000211_26.0405.C2
Gene No.	94757	Strand	+
Start	322	End	11279
Name	OJ000211_26.0405.C2.o1.np	Method	AAT/NAP
Start	8574	End	11048
GI	1565223	Score	1675
Exons	8574..8744, 8827..8999, 9094..9282, 9367..9483, 9562..9646, 9728..9880, 9963..10088, 10219..10401, 10651..10812, 10926..11048		

GI Descrip. (Y08301) MCM2-related protein [Arabidopsis thaliana]

Seq. No.	44910	Seq. ID	OJ000211_26.0405.C2
Gene No.	94757	Strand	+
Start	322	End	11279
Name	OJ000211_26.0405.C2.o4.gp	Method	AAT/GAP
Start	9942	End	11279
GI	54842_1.R1084	Score	1382
Exons	9942..10089, 10219..10401, 10651..10812, 10926..11279		



GI Descrip. '1565223/emb|CAA69609| 1.0e-37 (Y08301) MCM2-related protein  
[Arabidopsis thaliana]'

Seq. No.	44910	Seq. ID	OJ000211_26.0405.C2
Gene No.	94758	Strand	+
Start	12314	End	16970
Name	OJ000211_26.0405.C2.o2.gs	Method	GENSCAN
Start	12314	End	16950
GI	none	Score	.51
Exons	12314..12333, 12440..12663, 13000..13111, 14118..14597, 14701..15100, 15207..15251, 16717..16778, 16877..16950		

Seq. No.	44910	Seq. ID	OJ000211_26.0405.C2
Gene No.	94758	Strand	+
Start	12314	End	16970
Name	OJ000211_26.0405.C2.o5.gp	Method	AAT/GAP
Start	12409	End	12653
GI	none	Score	465
Exons	12409..12653		

Seq. No.	44910	Seq. ID	OJ000211_26.0405.C2
Gene No.	94758	Strand	+
Start	12314	End	16970
Name	OJ000211_26.0405.C2.o2.np	Method	AAT/NAP
Start	14188	End	16970
GI	6685381	Score	1478
Exons	14188..14597, 14701..15100, 15207..15251, 16029..16094, 16717..16778, 16877..16970		

GI Descrip. BIFUNCTIONAL DIHYDROFOLATE REDUCTASE-THYMIDYLATE SYNTHASE  
(DHFR-TS) [INCLUDES: DIHYDROFOLATE REDUCTASE ; THYMIDYLATE  
SYNTHASE ] gi|7433456|pir||T01684 dihydrofolate reductase (EC  
1.5.1.3) / thymidylate synthase (EC 2.1.1.45) - maize  
gi|3309066|gb|AAC26003.1| (AF073488) bifunctional dihydrofolate  
reductase-thymidylate synthase [Zea mays]

Seq. No.	44910	Seq. ID	OJ000211_26.0405.C2
Gene No.	94758	Strand	+
Start	12314	End	16970
Name	OJ000211_26.0405.C2.o6.gp	Method	AAT/GAP
Start	14446	End	14990
GI	uC-osflm202002h10b1	Score	864
Exons	14446..14597, 14701..14990		

GI Descrip. '3309066/gb|AAC26003.1| 1.0e-56 (AF073488) bifunctional  
dihydrofolate reductase-thymidylate synthase [Zea mays]'

Seq. No.	44910	Seq. ID	OJ000211_26.0405.C2
Gene No.	94758	Strand	+
Start	12314	End	16970
Name	OJ000211_26.0405.C2.o7.gp	Method	AAT/GAP
Start	15006	End	16970
GI	3766915	Score	519
Exons	15006..15100, 15207..15251, 16029..16094, 16717..16778, 16877..16970		

GI Descrip. 3309066/gb|AAC26003.1| 1.0e-56 (AF073488) bifunctional  
dihydrofolate reductase-thymidylate synthase [Zea mays]

Seq. No.	44910	Seq. ID	OJ000211_26.0405.C2
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Gene No.	94759	Strand	-
Start	175	End	2524
Name	OJ000211_26.0405.C2.o7.tm	Method	TBLASTX:Maize
Start	131	End	2380
GI	none	Score	140
Exons	131..235, 136..240, 137..229, 317..406, 318..407, 318..410, 319..411, 413..454, 414..458, 2213..2380, 2221..2328		

Seq. No.	44910	Seq. ID	OJ000211_26.0405.C2
Gene No.	94759	Strand	-
Start	175	End	2524
Name	OJ000211_26.0405.C2.o3.ts	Method	TBLASTX:Soybean
Start	136	End	2329
GI	none	Score	41
Exons	136..237, 143..226, 318..401, 319..402, 398..472, 399..473, 2221..2328, 2279..2329		

Seq. No.	44910	Seq. ID	OJ000211_26.0405.C2
Gene No.	94759	Strand	-
Start	175	End	2524
Name	OJ000211_26.0405.C2.o1.gp	Method	AAT/GAP
Start	175	End	2524
GI	40051.1.R1084	Score	907
Exons	175..234, 318..453, 2214..2524		
GI Descrip.	'4176420/dbj BAA37167  2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	44910	Seq. ID	OJ000211_26.0405.C2
Gene No.	94760	Strand	-
Start	6442	End	6674
Name	OJ000211_26.0405.C2.o8.tm	Method	TBLASTX:Maize
Start	6442	End	6674
GI	none	Score	205
Exons	6442..6639, 6452..6664, 6453..6500, 6454..6639, 6606..6674		

Seq. No.	44910	Seq. ID	OJ000211_26.0405.C2
Gene No.	94761	Strand	-
Start	7239	End	7873
Name	OJ000211_26.0405.C2.o2.tm	Method	TBLASTX:Maize
Start	7239	End	7873
GI	none	Score	128
Exons	7239..7292, 7240..7317, 7241..7318, 7404..7595, 7405..7599, 7405..7446, 7430..7603, 7691..7873, 7692..7871, 7693..7872		

Seq. No.	44910	Seq. ID	OJ000211_26.0405.C2
Gene No.	94762	Strand	-
Start	8174	End	11038
Name	OJ000211_26.0405.C2.o3.tm	Method	TBLASTX:Maize
Start	8174	End	8953
GI	none	Score	52
Exons	8174..8209, 8175..8204, 8326..8472, 8327..8470, 8552..8740, 8553..8741, 8553..8747, 8827..8847, 8828..8848, 8850..8951, 8850..8951, 8851..8952, 8854..8952, 8861..8953		

Seq. No.	44910	Seq. ID	OJ000211_26.0405.C2
Gene No.	94762	Strand	-
Start	8174	End	11038

Name	OJ000211_26.0405.C2.o1.tc	Method	TBLASTX:Cress
Start	8573	End	11030
GI	none	Score	260
Exons	8573..8740, 8574..8747, 8574..8741, 8824..9000, 8826..9002, 8827..9009, 9079..9246, 9080..9283, 9081..9272, 9364..9486, 9365..9484, 9559..9627, 9560..9646, 9713..9835, 9727..9810, 9957..10097, 9961..9996, 9963..10085, 10219..10401, 10221..10382, 10648..10812, 10663..10812, 10919..11029, 10923..11030		

Seq. No.	44910	Seq. ID	OJ000211_26.0405.C2
Gene No.	94762	Strand	
Start	8174	End	11038
Name	OJ000211_26.0405.C2.o2.ts	Method	TBLASTX:Soybean
Start	8860	End	9646
GI	none	Score	165
Exons	8860..9000, 8862..8996, 9079..9198, 9080..9283, 9364..9495, 9365..9496, 9560..9646		

Seq. No.	44910	Seq. ID	OJ000211_26.0405.C2
Gene No.	94762	Strand	
Start	8174	End	11038
Name	OJ000211_26.0405.C2.o4.tm	Method	TBLASTX:Maize
Start	8956	End	10395
GI	none	Score	69
Exons	8956..9000, 8961..8996, 9079..9162, 9079..9198, 9080..9283, 9364..9495, 9365..9496, 9560..9646, 10231..10395		

Seq. No.	44910	Seq. ID	OJ000211_26.0405.C2
Gene No.	94762	Strand	
Start	8174	End	11038
Name	OJ000211_26.0405.C2.o1.tw	Method	TBLASTX:Wheat
Start	9192	End	9781
GI	none	Score	58
Exons	9192..9278, 9194..9283, 9194..9259, 9249..9278, 9365..9481, 9367..9480, 9377..9481, 9554..9643, 9686..9781		

Seq. No.	44910	Seq. ID	OJ000211_26.0405.C2
Gene No.	94762	Strand	
Start	8174	End	11038
Name	OJ000211_26.0405.C2.o5.tm	Method	TBLASTX:Maize
Start	9752	End	11038
GI	none	Score	101
Exons	9752..9883, 9752..9880, 9965..10087, 9966..10088, 9967..10089, 10627..10812, 10628..10786, 10643..10834, 10648..10812, 10923..11036, 10923..10970, 10925..11038		

Seq. No.	44910	Seq. ID	OJ000211_26.0405.C2
Gene No.	94762	Strand	
Start	8174	End	11038
Name	OJ000211_26.0405.C2.o4.ts	Method	TBLASTX:Soybean
Start	9782	End	10260
GI	none	Score	51
Exons	9782..9844, 9803..9871, 9960..10073, 9963..10088, 9980..10087, 10218..10259, 10219..10260		

Seq. No.	44910	Seq. ID	OJ000211_26.0405.C2
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Gene No.	94763	Strand	
Start	14048	End	16956
Name	OJ000211_26.0405.C2.o6.tm	Method	TBLASTX:Maize
Start	14048	End	14378
GI	none	Score	189
Exons	14048..14335, 14073..14378, 14074..14376		

Seq. No.	44910	Seq. ID	OJ000211_26.0405.C2
Gene No.	94763	Strand	
Start	14048	End	16956
Name	OJ000211_26.0405.C2.o2.tc	Method	TBLASTX:Cress
Start	14151	End	16956
GI	none	Score	481
Exons	14151..14600, 14227..14601, 14459..14614, 14696..14908, 14696..14848, 14698..14892, 14924..15103, 14946..15101, 14947..15102, 15195..15263, 15204..15257, 16029..16097, 16031..16096, 16702..16776, 16716..16781, 16871..16951, 16875..16931, 16933..16956		

Seq. No.	44910	Seq. ID	OJ000211_26.0405.C2
Gene No.	94763	Strand	
Start	14048	End	16956
Name	OJ000211_26.0405.C2.o1.ts	Method	TBLASTX:Soybean
Start	14226	End	16951
GI	none	Score	113
Exons	14226..14432, 14227..14526, 14230..14610, 14244..14609, 14698..14892, 14699..15103, 14708..15103, 15183..15251, 16026..16100, 16026..16097, 16028..16102, 16028..16105, 16684..16776, 16716..16775, 16877..16951, 16878..16931		

Seq. No.	44910	Seq. ID	OJ000211_26.0405.C2
Gene No.	94763	Strand	
Start	14048	End	16956
Name	OJ000211_26.0405.C2.o1.tm	Method	TBLASTX:Maize
Start	14463	End	16951
GI	none	Score	148
Exons	14463..14597, 14463..14597, 14464..14598, 14486..14608, 14698..15099, 14699..15103, 14702..15103, 14704..15114, 15171..15251, 15183..15251, 16026..16100, 16026..16100, 16031..16105, 16684..16776, 16716..16778, 16872..16931, 16874..16933, 16934..16951		

Seq. No.	44911	Seq. ID	OJ000211_26.0405.C3
Gene No.	94764	Strand	+
Start	1	End	793
Name	OJ000211_26.0405.C3.o1.np	Method	AAT/NAP
Start	1	End	793
GI	6685381	Score	284
Exons	1..21, 432..537, 686..793		
GI Descrip.	BIFUNCTIONAL DIHYDROFOLATE REDUCTASE-THYMIDYLATE SYNTHASE (DHFR-TS) [INCLUDES: DIHYDROFOLATE REDUCTASE ; THYMIDYLATE SYNTHASE ] gi 7433456 pir  T01684 dihydrofolate reductase (EC 1.5.1.3) / thymidylate synthase (EC 2.1.1.45) - maize gi 3309066 gb AAC26003.1  (AF073488) bifunctional dihydrofolate reductase-thymidylate synthase [Zea mays]		

Seq. No.	44911	Seq. ID	OJ000211_26.0405.C3
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Gene No.	94765	Strand	+
Start	761	End	1576
Name	OJ000211_26.0405.C3.o1.tm	Method	TBLASTX:Maize
Start	408	End	1343
GI	none	Score	139
Exons	408..539, 426..536, 433..540, 686..799, 686..796, 688..798, 1137..1187, 1182..1217, 1305..1343		

Seq. No.	44911	Seq. ID	OJ000211_26.0405.C3
Gene No.	94765	Strand	+
Start	761	End	1576
Name	OJ000211_26.0405.C3.o1.gp	Method	AAT/GAP
Start	761	End	1576
GI	none	Score	899
Exons	761..800, 1099..1576		

Seq. No.	44912	Seq. ID	OJ000211_26.0405.C4
Gene No.	94766	Strand	-
Start	1	End	236
Name	OJ000211_26.0405.C4.o1.gp	Method	AAT/GAP
Start	1	End	236
GI	uC-osflcyp149b07a1	Score	339
Exons	1..236		
GI Descrip.	'4176420/dbj BAA37167  2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	44912	Seq. ID	OJ000211_26.0405.C4
Gene No.	94767	Strand	-
Start	1541	End	1842
Name	OJ000211_26.0405.C4.o1.gs	Method	GENSCAN
Start	1541	End	1842
GI	none	Score	.82
Exons	1541..1651, 1710..1842		

Seq. No.	44913	Seq. ID	OJ000211_26.0405.C5
Gene No.	94768	Strand	+
Start	1	End	3511
Name	OJ000211_26.0405.C5.o1.np	Method	AAT/NAP
Start	1	End	1359
GI	6692095	Score	1730
Exons	1..1359		
GI Descrip.	(AC007764) F22C12.5 [Arabidopsis thaliana]		

Seq. No.	44913	Seq. ID	OJ000211_26.0405.C5
Gene No.	94768	Strand	+
Start	1	End	3511
Name	OJ000211_26.0405.C5.o2.tc	Method	TBLASTX:Cress
Start	1	End	501
GI	none	Score	444
Exons	1..405, 3..341, 432..473, 433..501		

Seq. No.	44913	Seq. ID	OJ000211_26.0405.C5
Gene No.	94768	Strand	+
Start	1	End	3511
Name	OJ000211_26.0405.C5.o2.tm	Method	TBLASTX:Maize
Start	1	End	384
GI	none	Score	427

Exons 1..384, 3..341

Seq. No.	44913	Seq. ID	OJ000211_26.0405.C5
Gene No.	94768	Strand	+
Start	1	End	3511
Name	OJ000211_26.0405.C5.o3.tw	Method	TBLASTX:Wheat
Start	1	End	210
GI	none	Score	187
Exons	1..210		

Seq. No.	44913	Seq. ID	OJ000211_26.0405.C5
Gene No.	94768	Strand	+
Start	1	End	3511
Name	OJ000211_26.0405.C5.o1.ts	Method	TBLASTX:Soybean
Start	1	End	1356
GI	none	Score	440
Exons	1..405, 3..341, 373..636, 399..473, 451..624, 643..894, 664..819, 871..1356, 874..1344, 1179..1349		

Seq. No.	44913	Seq. ID	OJ000211_26.0405.C5
Gene No.	94768	Strand	+
Start	1	End	3511
Name	OJ000211_26.0405.C5.o1.gs	Method	GENSCAN
Start	108	End	3511
GI	none	Score	.82
Exons	108..1151, 1233..1315, 3471..3511		

Seq. No.	44913	Seq. ID	OJ000211_26.0405.C5
Gene No.	94768	Strand	+
Start	1	End	3511
Name	OJ000211_26.0405.C5.o1.tm	Method	TBLASTX:Maize
Start	385	End	1350
GI	none	Score	64
Exons	385..447, 502..636, 558..620, 643..852, 643..816, 853..1350, 903..1346		

Seq. No.	44913	Seq. ID	OJ000211_26.0405.C5
Gene No.	94768	Strand	+
Start	1	End	3511
Name	OJ000211_26.0405.C5.o3.tc	Method	TBLASTX:Cress
Start	658	End	954
GI	none	Score	188
Exons	658..840, 664..810, 853..954, 871..954		

Seq. No.	44913	Seq. ID	OJ000211_26.0405.C5
Gene No.	94768	Strand	+
Start	1	End	3511
Name	OJ000211_26.0405.C5.o2.tw	Method	TBLASTX:Wheat
Start	695	End	894
GI	none	Score	161
Exons	695..883, 697..894, 697..882		

Seq. No.	44913	Seq. ID	OJ000211_26.0405.C5
Gene No.	94768	Strand	+
Start	1	End	3511
Name	OJ000211_26.0405.C5.o1.gp	Method	AAT/GAP
Start	800	End	1659

GI 11331\_1.R1084 Score 1521  
 Exons 800..1659  
 GI Descrip. '4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450  
 [Arabidopsis thaliana]'

Seq. No. 44913 Seq. ID OJ000211\_26.0405.C5  
 Gene No. 94768 Strand +  
 Start 1 End 3511  
 Name OJ000211\_26.0405.C5.o1.tw Method TBLASTX:Wheat  
 Start 896 End 1295  
 GI none Score 163  
 Exons 896..949, 897..1157, 898..1293, 898..1293, 906..1295

Seq. No. 44913 Seq. ID OJ000211\_26.0405.C5  
 Gene No. 94768 Strand +  
 Start 1 End 3511  
 Name OJ000211\_26.0405.C5.o1.tc Method TBLASTX:Cress  
 Start 955 End 1356  
 GI none Score 268  
 Exons 955..1140, 960..1139, 964..1140, 1010..1144, 1161..1355,  
 1178..1342, 1179..1355, 1180..1356

Seq. No. 44914 Seq. ID OJ000211\_26.0405.C6  
 Gene No. 94769 Strand -  
 Start 4937 End 5157  
 Name OJ000211\_26.0405.C6.o2.gs Method GENSCAN  
 Start 4937 End 5157  
 GI none Score .99  
 Exons 4937..5157

Seq. No. 44915 Seq. ID OJ000211\_26.0405.C7  
 Gene No. 94770 Strand -  
 Start 2553 End 3492  
 Name OJ000211\_26.0405.C7.o1.gs Method GENSCAN  
 Start 2553 End 3492  
 GI none Score .42  
 Exons 2553..2622, 3465..3492

Seq. No. 44916 Seq. ID OJ000211\_26.0405.C8  
 Gene No. 94771 Strand +  
 Start 182 End 555  
 Name OJ000211\_26.0405.C8.o1.gs Method GENSCAN  
 Start 182 End 555  
 GI none Score .96  
 Exons 182..245, 326..555

Seq. No. 44916 Seq. ID OJ000211\_26.0405.C8  
 Gene No. 94772 Strand -  
 Start 1635 End 4269  
 Name OJ000211\_26.0405.C8.o2.gs Method GENSCAN  
 Start 1635 End 4269  
 GI none Score .81  
 Exons 1635..1713, 2505..2855, 4202..4269

Seq. No. 44916 Seq. ID OJ000211\_26.0405.C8  
 Gene No. 94772 Strand -  
 Start 1635 End 4269

Name	OJ000211_26.0405.C8.o1.np	Method	AAT/NAP
Start	2485	End	2829
GI	7487092	Score	184
Exons	2485..2829		
GI Descrip.	hypothetical protein T16L1.40 - Arabidopsis thaliana gi 3549657 emb CAA20568.1  (AL031394) putative protein [Arabidopsis thaliana] gi 7270303 emb CAB80072.1  (AL161583) putative protein [Arabidopsis thaliana]		

Seq. No.	44916	Seq. ID	OJ000211_26.0405.C8
Gene No.	94772	Strand	-
Start	1635	End	4269
Name	OJ000211_26.0405.C8.o1.tm	Method	TBLASTX:Maize
Start	2503	End	2760
GI	none	Score	128
Exons	2503..2760, 2504..2749		

Seq. No.	44917	Seq. ID	OJ000211_26.0405.C9
Gene No.	94773	Strand	+
Start	53	End	238
Name	OJ000211_26.0405.C9.o1.gs	Method	GENSCAN
Start	53	End	238
GI	none	Score	.62
Exons	53..238		

Seq. No.	44918	Seq. ID	OJ000211_26.0405.C10
Gene No.	94774	Strand	+
Start	2736	End	8280
Name	OJ000211_26.0405.C10.o2.np	Method	AAT/NAP
Start	2736	End	6834
GI	5902445	Score	1012
Exons	2736..2831, 6170..6834		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	44918	Seq. ID	OJ000211_26.0405.C10
Gene No.	94774	Strand	+
Start	2736	End	8280
Name	OJ000211_26.0405.C10.o1.np	Method	AAT/NAP
Start	4315	End	8280
GI	5902444	Score	2377
Exons	4315..6152, 8242..8280		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	44918	Seq. ID	OJ000211_26.0405.C10
Gene No.	94774	Strand	+
Start	2736	End	8280
Name	OJ000211_26.0405.C10.o4.gs	Method	GENSCAN
Start	5271	End	6690
GI	none	Score	.63
Exons	5271..5906, 5919..6171, 6323..6690		

Seq. No.	44918	Seq. ID	OJ000211_26.0405.C10
Gene No.	94775	Strand	-
Start	1546	End	3864
Name	OJ000211_26.0405.C10.o2.gs	Method	GENSCAN
Start	1546	End	3864
GI	none	Score	.68



Exons 1546..1693, 2338..2468, 2516..3011, 3523..3682, 3858..3864

Seq. No.	44918	Seq. ID	OJ000211_26.0405.C10
Gene No.	94776	Strand	-
Start	7155	End	19849
Name	OJ000211_26.0405.C10.o5.gs	Method	GENSCAN
Start	7155	End	19849
GI	none	Score	.6
Exons	7155..7498, 7679..7798, 7856..8099, 8120..8307, 8385..8519, 8562..8743, 8826..8983, 9188..9246, 9278..9520, 9686..9790, 9986..10163, 12056..12350, 13122..13232, 13383..13687, 13760..13952, 17349..17380, 19104..19144, 19452..19849		

Seq. No.	44918	Seq. ID	OJ000211_26.0405.C10
Gene No.	94776	Strand	-
Start	7155	End	19849
Name	OJ000211_26.0405.C10.o3.np	Method	AAT/NAP
Start	7158	End	10070
GI	6691716	Score	2601
Exons	7158..7606, 7679..7791, 7942..8045, 8120..8307, 8385..8564, 8641..8743, 8826..8992, 9188..10070		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6691717 dbj BAA89397.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	44918	Seq. ID	OJ000211_26.0405.C10
Gene No.	94777	Strand	-
Start	19783	End	20018
Name	OJ000211_26.0405.C10.o2.tw	Method	TBLASTX:Wheat
Start	5630	End	6032
GI	none	Score	255
Exons	5630..5899, 5631..6032		

Seq. No.	44918	Seq. ID	OJ000211_26.0405.C10
Gene No.	94777	Strand	-
Start	19783	End	20018
Name	OJ000211_26.0405.C10.o1.tw	Method	TBLASTX:Wheat
Start	6210	End	6825
GI	none	Score	246
Exons	6210..6293, 6211..6489, 6372..6473, 6544..6669, 6700..6825		

Seq. No.	44918	Seq. ID	OJ000211_26.0405.C10
Gene No.	94777	Strand	-
Start	19783	End	20018
Name	OJ000211_26.0405.C10.o1.tm	Method	TBLASTX:Maize
Start	6553	End	6786
GI	none	Score	143
Exons	6553..6705, 6685..6786, 6699..6785		

Seq. No.	44918	Seq. ID	OJ000211_26.0405.C10
Gene No.	94777	Strand	-
Start	19783	End	20018
Name	OJ000211_26.0405.C10.o3.tw	Method	TBLASTX:Wheat
Start	9660	End	9969
GI	none	Score	37
Exons	9660..9950, 9697..9765, 9868..9969		

Seq. No.	44918	Seq. ID	OJ000211_26.0405.C10
Gene No.	94777	Strand	-
Start	19783	End	20018
Name	OJ000211_26.0405.C10.o4.np	Method	AAT/NAP
Start	19783	End	20018
GI	7489269	Score	25
Exons	19783..19849, 19968..20018		
GI Descrip.	protoporphyrinogen oxidase (EC 1.3.3.4) IX, chloroplast - potato gi 3093410 emb CAA12400.1  (AJ225107) protoporphyrinogen oxidase [Solanum tuberosum]		

Seq. No.	44919	Seq. ID	OJ000211_26.0405.C11
Gene No.	94778	Strand	+
Start	2328	End	6124
Name	OJ000211_26.0405.C11.o2.gs	Method	GENSCAN
Start	2328	End	6099
GI	none	Score	.81
Exons	2328..2394, 2396..2468, 3145..3310, 3450..3584, 4112..5224, 5301..5429, 5691..5913, 6011..6099		

Seq. No.	44919	Seq. ID	OJ000211_26.0405.C11
Gene No.	94778	Strand	+
Start	2328	End	6124
Name	OJ000211_26.0405.C11.o1.np	Method	AAT/NAP
Start	3118	End	6124
GI	5669151	Score	354
Exons	3118..3192, 3474..3593, 4247..5224, 5301..5429, 5691..5917, 6015..6124		
GI Descrip.	(AF156679) plasma membrane proton ATPase [Nicotiana plumbaginifolia]		

Seq. No.	44919	Seq. ID	OJ000211_26.0405.C11
Gene No.	94778	Strand	+
Start	2328	End	6124
Name	OJ000211_26.0405.C11.o1.tc	Method	TBLASTX:Cress
Start	4424	End	5224
GI	none	Score	127
Exons	4424..4558, 4448..4570, 4456..4569, 4757..4846, 4885..5178, 4895..5167, 5174..5224		

Seq. No.	44919	Seq. ID	OJ000211_26.0405.C11
Gene No.	94778	Strand	+
Start	2328	End	6124
Name	OJ000211_26.0405.C11.o1.ts	Method	TBLASTX:Soybean
Start	4757	End	5792
GI	none	Score	59
Exons	4757..4846, 4882..5133, 4895..5167, 4895..5137, 4897..5196, 5147..5224, 5688..5792		

Seq. No.	44919	Seq. ID	OJ000211_26.0405.C11
Gene No.	94778	Strand	+
Start	2328	End	6124
Name	OJ000211_26.0405.C11.o1.tm	Method	TBLASTX:Maize
Start	4792	End	5148
GI	none	Score	53
Exons	4792..4854, 4793..4858, 4853..5146, 4861..5148, 4883..5146		

Seq. No.	44920	Seq. ID	OJ000211_26.0405.C12
Gene No.	94779	Strand	+
Start	1	End	3103
Name	OJ000211_26.0405.C12.o1.np	Method	AAT/NAP
Start	1	End	2863
GI	7436354	Score	183
Exons	1..51, 144..221, 327..518, 573..724, 1102..1225, 2829..2863		
GI Descrip.	probable plasma membrane H <sup>+</sup> -ATPase - rice gi 633110 dbj BAA06629.1  (D31843) plasma membrane H <sup>+</sup> -ATPase [Oryza sativa]		

Seq. No.	44920	Seq. ID	OJ000211_26.0405.C12
Gene No.	94779	Strand	+
Start	1	End	3103
Name	OJ000211_26.0405.C12.o1.gs	Method	GENSCAN
Start	197	End	3103
GI	none	Score	.59
Exons	197..224, 330..490, 560..724, 1102..1225, 1495..1579, 3007..3103		

Seq. No.	44920	Seq. ID	OJ000211_26.0405.C12
Gene No.	94780	Strand	-
Start	1	End	10919
Name	OJ000211_26.0405.C12.o3.np	Method	AAT/NAP
Start	1	End	10919
GI	7293601	Score	34
Exons	1..83, 7882..7919, 8412..8530, 10896..10919		
GI Descrip.	(AE003512) CG14217 gene product [Drosophila melanogaster]		

Seq. No.	44920	Seq. ID	OJ000211_26.0405.C12
Gene No.	94780	Strand	-
Start	1	End	10919
Name	OJ000211_26.0405.C12.o2.gs	Method	GENSCAN
Start	3543	End	9203
GI	none	Score	.6
Exons	3543..3705, 4264..4379, 5805..5939, 6331..6361, 6618..6750, 7814..7919, 8412..8530, 8615..8740, 8966..9203		

Seq. No.	44920	Seq. ID	OJ000211_26.0405.C12
Gene No.	94780	Strand	-
Start	1	End	10919
Name	OJ000211_26.0405.C12.o1.tm	Method	TBLASTX:Maize
Start	5662	End	5877
GI	none	Score	126
Exons	5662..5691, 5693..5821, 5697..5816, 5705..5818, 5706..5825, 5823..5876, 5824..5877, 5831..5875		

Seq. No.	44920	Seq. ID	OJ000211_26.0405.C12
Gene No.	94780	Strand	-
Start	1	End	10919
Name	OJ000211_26.0405.C12.o2.np	Method	AAT/NAP
Start	5669	End	9008
GI	6911866	Score	120
Exons	5669..5863, 8961..9008		
GI Descrip.	(AL138655) phosphatidylinositol-4-phosphate 5-kinase-like protein [Arabidopsis thaliana]		

Seq. No.	44921	Seq. ID	OJ000211_26.0405.C13
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Gene No.	94781	Strand	+
Start	156	End	246
Name	OJ000211_26.0405.C13.ol.gs	Method	GENSCAN
Start	156	End	246
GI	none	Score	.98
Exons	156..238, 240..246		

Seq. No.	44921	Seq. ID	OJ000211_26.0405.C13
Gene No.	94782	Strand	-
Start	2574	End	7496
Name	OJ000211_26.0405.C13.o2.gs	Method	GENSCAN
Start	2574	End	7415
GI	none	Score	.56
Exons	2574..3554, 4446..4528, 4615..5728, 5837..7041, 7271..7415		

Seq. No.	44921	Seq. ID	OJ000211_26.0405.C13
Gene No.	94782	Strand	-
Start	2574	End	7496
Name	OJ000211_26.0405.C13.ol.np	Method	AAT/NAP
Start	2589	End	7496
GI	7489454	Score	1315
Exons	2589..5282, 5316..7496		
GI Descrip.	bacterial blight-resistance protein Xal - rice gi 2943742 dbj BAA25068.1  (AB002266) XA1 [Oryza sativa]		

Seq. No.	44921	Seq. ID	OJ000211_26.0405.C13
Gene No.	94782	Strand	-
Start	2574	End	7496
Name	OJ000211_26.0405.C13.o2.np	Method	AAT/NAP
Start	5585	End	6760
GI	7489397	Score	1320
Exons	5585..6760		
GI Descrip.	NBS-LRR type resistance protein - barley (fragment) gi 2792210 gb AAB96980.1  (AF032683) NBS-LRR type resistance protein [Hordeum vulgare]		

Seq. No.	44921	Seq. ID	OJ000211_26.0405.C13
Gene No.	94782	Strand	-
Start	2574	End	7496
Name	OJ000211_26.0405.C13.ol.ts	Method	TBLASTX:Soybean
Start	5600	End	5971
GI	none	Score	212
Exons	5600..5716, 5717..5971		

Seq. No.	44921	Seq. ID	OJ000211_26.0405.C13
Gene No.	94782	Strand	-
Start	2574	End	7496
Name	OJ000211_26.0405.C13.o2.tm	Method	TBLASTX:Maize
Start	5672	End	6208
GI	none	Score	67
Exons	5672..5716, 5795..5941, 5804..5950, 5985..6098, 5993..6208		

Seq. No.	44921	Seq. ID	OJ000211_26.0405.C13
Gene No.	94782	Strand	-
Start	2574	End	7496
Name	OJ000211_26.0405.C13.o2.ts	Method	TBLASTX:Soybean
Start	6032	End	6592

GI	none	Score	55
Exons	6032..6262, 6320..6379, 6428..6523, 6533..6592		
Seq. No.	44921	Seq. ID	OJ000211_26.0405.C13
Gene No.	94782	Strand	-
Start	2574	End	7496
Name	OJ000211_26.0405.C13.o1.tm	Method	TBLASTX:Maize
Start	6236	End	6604
GI	none	Score	71
Exons	6236..6358, 6236..6412, 6237..6359, 6455..6604		
Seq. No.	44922	Seq. ID	OJ000211_26.0405.C22
Gene No.	94783	Strand	+
Start	1102	End	10674
Name	OJ000211_26.0405.C22.o1.gp	Method	AAT/GAP
Start	1102	End	10674
GI	LIB3477-003-P1-K1-E9	Score	121
Exons	1102..1153, 10633..10674		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		
Seq. No.	44922	Seq. ID	OJ000211_26.0405.C22
Gene No.	94783	Strand	+
Start	1102	End	10674
Name	OJ000211_26.0405.C22.o1.gs	Method	GENSCAN
Start	2741	End	7008
GI	none	Score	.47
Exons	2741..2764, 2926..3088, 6818..7008		
Seq. No.	44922	Seq. ID	OJ000211_26.0405.C22
Gene No.	94784	Strand	+
Start	13159	End	15060
Name	OJ000211_26.0405.C22.o3.gs	Method	GENSCAN
Start	13159	End	15060
GI	none	Score	.85
Exons	13159..13296, 13680..13748, 14440..14560, 14775..14869, 14962..15060		
Seq. No.	44922	Seq. ID	OJ000211_26.0405.C22
Gene No.	94784	Strand	+
Start	13159	End	15060
Name	OJ000211_26.0405.C22.o1.np	Method	AAT/NAP
Start	13680	End	15057
GI	2760317	Score	650
Exons	13680..13748, 14074..14189, 14283..14337, 14440..14560, 14641..14693, 14728..14869, 14962..15057		
GI Descrip.	(AC002130) F1N21.1 [Arabidopsis thaliana]		
Seq. No.	44922	Seq. ID	OJ000211_26.0405.C22
Gene No.	94785	Strand	+
Start	16608	End	19351
Name	OJ000211_26.0405.C22.o3.np	Method	AAT/NAP
Start	16608	End	18978
GI	5777619	Score	176
Exons	16608..16752, 16801..16890, 18805..18978		
GI Descrip.	(AJ245900) CAA30377.1 protein [Oryza sativa]		

Seq. No.	44922	Seq. ID	OJ000211_26.0405.C22
Gene No.	94785	Strand	+
Start	16608	End	19351
Name	OJ000211_26.0405.C22.o5.gs	Method	GENSCAN
Start	17843	End	19351
GI	none	Score	.77
Exons	17843..17930, 18870..19351		

Seq. No.	44922	Seq. ID	OJ000211_26.0405.C22
Gene No.	94786	Strand	-
Start	14155	End	17001
Name	OJ000211_26.0405.C22.o2.np	Method	AAT/NAP
Start	14155	End	17001
GI	3461822	Score	562
Exons	14155..14183, 15556..17001		
GI Descrip.	(AC004138) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	44922	Seq. ID	OJ000211_26.0405.C22
Gene No.	94786	Strand	-
Start	14155	End	17001
Name	OJ000211_26.0405.C22.o4.gs	Method	GENSCAN
Start	15532	End	16968
GI	none	Score	.96
Exons	15532..16968		

Seq. No.	44922	Seq. ID	OJ000211_26.0405.C22
Gene No.	94787	Strand	-
Start	19674	End	22121
Name	OJ000211_26.0405.C22.o3.ts	Method	TBLASTX:Soybean
Start	13189	End	14340
GI	none	Score	75
Exons	13189..13296, 14073..14189, 14074..14190, 14086..14190, 14271..14324, 14272..14340, 14281..14334		

Seq. No.	44922	Seq. ID	OJ000211_26.0405.C22
Gene No.	94787	Strand	-
Start	19674	End	22121
Name	OJ000211_26.0405.C22.o3.tw	Method	TBLASTX:Wheat
Start	13213	End	14334
GI	none	Score	87
Exons	13213..13296, 14072..14176, 14073..14189, 14074..14190, 14281..14334		

Seq. No.	44922	Seq. ID	OJ000211_26.0405.C22
Gene No.	94787	Strand	-
Start	19674	End	22121
Name	OJ000211_26.0405.C22.o1.tm	Method	TBLASTX:Maize
Start	14164	End	15072
GI	none	Score	42
Exons	14164..14190, 14259..14336, 14281..14334, 14439..14564, 14440..14565, 14447..14572, 14476..14571, 14631..14687, 14642..14689, 14642..14686, 14772..14870, 14772..14882, 14773..14895, 14774..14896, 14979..15071, 14980..15072, 14986..15072		

Seq. No.	44922	Seq. ID	OJ000211_26.0405.C22
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Gene No.	94787	Strand	-
Start	19674	End	22121
Name	OJ000211_26.0405.C22.o2.ts	Method	TBLASTX:Soybean
Start	15548	End	15915
GI	none	Score	85
Exons	15548..15844, 15550..15780, 15793..15915, 15794..15913		

Seq. No.	44922	Seq. ID	OJ000211_26.0405.C22
Gene No.	94787	Strand	-
Start	19674	End	22121
Name	OJ000211_26.0405.C22.o3.tm	Method	TBLASTX:Maize
Start	15562	End	16587
GI	none	Score	97
Exons	15562..15825, 15802..16176, 15809..16156, 15949..16164, 15974..16165, 16006..16164, 16246..16587, 16255..16413, 16306..16554, 16321..16554		

Seq. No.	44922	Seq. ID	OJ000211_26.0405.C22
Gene No.	94787	Strand	-
Start	19674	End	22121
Name	OJ000211_26.0405.C22.o1.tc	Method	TBLASTX:Cress
Start	15694	End	16386
GI	none	Score	60
Exons	15694..15780, 15823..16164, 15952..16092, 16264..16386		

Seq. No.	44922	Seq. ID	OJ000211_26.0405.C22
Gene No.	94787	Strand	-
Start	19674	End	22121
Name	OJ000211_26.0405.C22.o2.tw	Method	TBLASTX:Wheat
Start	15857	End	16347
GI	none	Score	148
Exons	15857..16174, 15859..16176, 16252..16347		

Seq. No.	44922	Seq. ID	OJ000211_26.0405.C22
Gene No.	94787	Strand	-
Start	19674	End	22121
Name	OJ000211_26.0405.C22.o2.gp	Method	AAT/GAP
Start	19674	End	21496
GI	20758_1.R1084	Score	1596
Exons	19674..20010, 20202..20320, 20406..20515, 20752..20853, 20939..21088, 21429..21496		
GI Descrip.	'2984225 2.0e-34 (AE000766) enolase-phosphatase E-1 [Aquifex aeolicus]'		

Seq. No.	44922	Seq. ID	OJ000211_26.0405.C22
Gene No.	94787	Strand	-
Start	19674	End	22121
Name	OJ000211_26.0405.C22.o2.tm	Method	TBLASTX:Maize
Start	19900	End	21951
GI	none	Score	109
Exons	19900..20010, 19915..20010, 19919..20014, 19920..20012, 20195..20296, 20196..20318, 20200..20325, 20200..20319, 20405..20515, 20407..20505, 20409..20516, 20410..20538, 20433..20522, 20704..20862, 20750..20854, 20939..21094, 20939..21094, 20943..21110, 21417..21584, 21417..21581, 21419..21622, 21427..21597, 21786..21950, 21786..21950, 21808..21951		

Seq. No.	44922	Seq. ID	OJ000211_26.0405.C22
Gene No.	94787	Strand	-
Start	19674	End	22121
Name	OJ000211_26.0405.C22.o1.tw	Method	TBLASTX:Wheat
Start	19904	End	20522
GI	none	Score	147
Exons	19904..20014, 19905..20012, 19912..20013, 20195..20296, 20199..20318, 20200..20322, 20200..20319, 20240..20332, 20405..20515, 20406..20516, 20407..20505, 20407..20517, 20433..20522		

Seq. No.	44922	Seq. ID	OJ000211_26.0405.C22
Gene No.	94787	Strand	-
Start	19674	End	22121
Name	OJ000211_26.0405.C22.o4.np	Method	AAT/NAP
Start	19916	End	21590
GI	7451875	Score	288
Exons	19916..20010, 20202..20320, 20406..20515, 20752..20853, 20939..21027, 21425..21590		

GI Descrip. enolase-phosphatase E-1 - Aquifex aeolicus  
gi|2984225|gb|AAC07754.1| (AE000766) enolase-phosphatase E-1  
[Aquifex aeolicus]

Seq. No.	44922	Seq. ID	OJ000211_26.0405.C22
Gene No.	94787	Strand	-
Start	19674	End	22121
Name	OJ000211_26.0405.C22.o1.ts	Method	TBLASTX:Soybean
Start	19919	End	21950
GI	none	Score	107
Exons	19919..20014, 19923..20012, 20195..20293, 20200..20319, 20200..20319, 20402..20521, 20405..20515, 20433..20522, 20734..20862, 20750..20860, 20939..21091, 20949..21080, 21417..21590, 21419..21598, 21427..21594, 21536..21598, 21822..21950, 21848..21946, 21855..21950		

Seq. No.	44922	Seq. ID	OJ000211_26.0405.C22
Gene No.	94787	Strand	-
Start	19674	End	22121
Name	OJ000211_26.0405.C22.o2.tc	Method	TBLASTX:Cress
Start	19919	End	20515
GI	none	Score	97
Exons	19919..20014, 19932..20012, 20168..20293, 20200..20319, 20414..20515		

Seq. No.	44922	Seq. ID	OJ000211_26.0405.C22
Gene No.	94787	Strand	-
Start	19674	End	22121
Name	OJ000211_26.0405.C22.o6.gs	Method	GENSCAN
Start	19919	End	22121
GI	none	Score	.94
Exons	19919..20010, 20202..20320, 20406..20515, 20752..20853, 20939..21088, 21429..21584, 21786..21947, 22080..22121		

Seq. No.	44922	Seq. ID	OJ000211_26.0405.C22
Gene No.	94787	Strand	-
Start	19674	End	22121



Name	OJ000211_26.0405.C22.o3.gp	Method	AAT/GAP
Start	21518	End	22005
GI	60688_1.R1084	Score	379
Exons	21518..21584, 21786..21950, 21983..22005		
GI Descrip.	'4263711/gb AAD15397  5.0e-28 (AC006223) putative CCR4-associated transcription factor [Arabidopsis thaliana]'		

Seq. No.	44923	Seq. ID	OJ000251_22.0403.C1
Gene No.	94788	Strand	+
Start	1	End	781
Name	OJ000251_22.0403.C1.o1.np	Method	AAT/NAP
Start	1	End	781
GI	4559347	Score	286
Exons	1..461, 489..781		
GI Descrip.	(AC006585) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	44923	Seq. ID	OJ000251_22.0403.C1
Gene No.	94788	Strand	+
Start	1	End	781
Name	OJ000251_22.0403.C1.o1.gs	Method	GENSCAN
Start	84	End	692
GI	none	Score	.43
Exons	84..692		

Seq. No.	44923	Seq. ID	OJ000251_22.0403.C1
Gene No.	94789	Strand	+
Start	688	End	1145
Name	OJ000251_22.0403.C1.o1.tm	Method	TBLASTX:Maize
Start	688	End	1145
GI	none	Score	111
Exons	688..756, 689..775, 858..908, 859..978, 1074..1145, 1085..1144		

Seq. No.	44924	Seq. ID	OJ000251_22.0403.C3
Gene No.	94790	Strand	+
Start	135	End	1966
Name	OJ000251_22.0403.C3.o1.gs	Method	GENSCAN
Start	135	End	1966
GI	none	Score	.78
Exons	135..269, 1265..1331, 1812..1966		

Seq. No.	44924	Seq. ID	OJ000251_22.0403.C3
Gene No.	94791	Strand	+
Start	5500	End	8868
Name	OJ000251_22.0403.C3.o1.gp	Method	AAT/GAP
Start	5493	End	6630
GI	30792_1.R1084	Score	1317
Exons	5493..5778, 6055..6472, 6566..6630		
GI Descrip.	'2980774/emb CAA18201.1  5.0e-25 (AL022198) leucyl aminopeptidase-like protein [Arabidopsis thaliana]'		

Seq. No.	44924	Seq. ID	OJ000251_22.0403.C3
Gene No.	94791	Strand	+
Start	5500	End	8868
Name	OJ000251_22.0403.C3.o2:gs	Method	GENSCAN
Start	5500	End	8774
GI	none	Score	.87
Exons	5500..5874, 6055..7082, 7209..7431, 7559..7636, 7914..7974,		

8077..8264, 8391..8494, 8681..8774

Seq. No. 44924 Seq. ID OJ000251\_22.0403.C3  
Gene No. 94791 Strand +  
Start 5500 End 8868  
Name OJ000251\_22.0403.C3.o1.np Method AAT/NAP  
Start 5728 End 8519  
GI 231536 Score 1776  
Exons 5728..5778, 6055..6472, 6566..6760, 6858..7082, 7209..7431,  
7559..7636, 7914..7974, 8077..8264, 8391..8519  
GI Descrip. CYTOSOL AMINOPEPTIDASE (LEUCINE AMINOPEPTIDASE) (LAP) (LEUCYL  
AMINOPEPTIDASE) (PROLINE AMINOPEPTIDASE) (PROLYL AMINOPEPTIDASE)  
gi|99683|pir||S22399 leucyl aminopeptidase (EC 3.4.11.1) -  
Arabidopsis thaliana gi|16394|emb|CAA45040.1| (X63444) leucine  
aminopeptidase [Arabidopsis thaliana] gi|4115380|gb|AAD03381.1|  
(AC005967) putative leucine aminopeptidase [Arabidopsi

Seq. No. 44924 Seq. ID OJ000251\_22.0403.C3  
Gene No. 94791 Strand +  
Start 5500 End 8868  
Name OJ000251\_22.0403.C3.o2.gp Method AAT/GAP  
Start 7198 End 8868  
GI 2300\_1.R1084 Score 1954  
Exons 7198..7431, 7559..7636, 7914..7974, 8077..8264, 8391..8868  
GI Descrip. '3790743 3.0e-10 (AF099919) contains similarity to cytochrome C  
oxidase assembly protein COX17 homologues [Caenorhabditis  
elegans]'

Seq. No. 44924 Seq. ID OJ000251\_22.0403.C3  
Gene No. 94792 Strand +  
Start 10616 End 11991  
Name OJ000251\_22.0403.C3.o3.gp Method AAT/GAP  
Start 10616 End 11991  
GI 2312774 Score 721  
Exons 10616..10718, 11663..11991  
GI Descrip. 3790743 3.0e-10 (AF099919) contains similarity to cytochrome C  
oxidase assembly protein COX17 homologues [Caenorhabditis  
elegans]

Seq. No. 44924 Seq. ID OJ000251\_22.0403.C3  
Gene No. 94792 Strand +  
Start 10616 End 11991  
Name OJ000251\_22.0403.C3.o2.np Method AAT/NAP  
Start 11654 End 11925  
GI 7293034 Score 183  
Exons 11654..11925  
GI Descrip. (AE003497) CG9065 gene product [Drosophila melanogaster]

Seq. No. 44924 Seq. ID OJ000251\_22.0403.C3  
Gene No. 94793 Strand -  
Start 10626 End 17366  
Name OJ000251\_22.0403.C3.o4.tm Method TBLASTX:Maize  
Start 5671 End 6330  
GI none Score 60  
Exons 5671..5709, 5673..5741, 5740..5781, 5742..5774, 6051..6167,  
6051..6329, 6052..6330

Seq. No.	44924	Seq. ID	OJ000251_22.0403.C3
Gene No.	94793	Strand	-
Start	10626	End	17366
Name	OJ000251_22.0403.C3.o1.tc	Method	TBLASTX:Cress
Start	6052	End	8520
GI	none	Score	239
Exons	6052..6327, 6057..6314, 6534..6782, 6538..6765, 6824..6874, 6872..7021, 6873..7082, 6874..7080, 7199..7270, 7200..7433, 7201..7434, 7553..7642, 7913..7978, 7914..7976, 8072..8263, 8073..8264, 8073..8264, 8369..8515, 8370..8516, 8388..8516, 8389..8520		

Seq. No.	44924	Seq. ID	OJ000251_22.0403.C3
Gene No.	94793	Strand	-
Start	10626	End	17366
Name	OJ000251_22.0403.C3.o1.ts	Method	TBLASTX:Soybean
Start	6052	End	8516
GI	none	Score	247
Exons	6052..6318, 6057..6311, 6319..6483, 6321..6479, 6562..6765, 6564..6785, 6873..7082, 6874..7080, 6884..7090, 6885..7082, 7199..7432, 7200..7433, 7200..7433, 7201..7434, 7553..7642, 7556..7636, 7910..7975, 7912..7983, 7914..7976, 8072..8263, 8073..8264, 8091..8264, 8343..8510, 8351..8515, 8370..8516		

Seq. No.	44924	Seq. ID	OJ000251_22.0403.C3
Gene No.	94793	Strand	-
Start	10626	End	17366
Name	OJ000251_22.0403.C3.o2.tw	Method	TBLASTX:Wheat
Start	6532	End	6965
GI	none	Score	260
Exons	6532..6765, 6564..6764, 6850..6963, 6873..6965		

Seq. No.	44924	Seq. ID	OJ000251_22.0403.C3
Gene No.	94793	Strand	-
Start	10626	End	17366
Name	OJ000251_22.0403.C3.o1.tm	Method	TBLASTX:Maize
Start	6594	End	8518
GI	none	Score	153
Exons	6594..6755, 6594..6758, 6595..6765, 6619..6771, 6824..6874, 6863..7051, 6873..7082, 6874..7080, 6876..7082, 6878..7090, 7200..7433, 7200..7433, 7201..7434, 7553..7642, 7556..7636, 7891..7929, 7902..7970, 7910..7978, 7914..7976, 8072..8263, 8073..8264, 8079..8264, 8348..8515, 8356..8511, 8370..8516, 8371..8517, 8402..8518		

Seq. No.	44924	Seq. ID	OJ000251_22.0403.C3
Gene No.	94793	Strand	-
Start	10626	End	17366
Name	OJ000251_22.0403.C3.o1.tw	Method	TBLASTX:Wheat
Start	7389	End	8264
GI	none	Score	58
Exons	7389..7433, 7389..7433, 7390..7434, 7553..7642, 7554..7634, 7891..7929, 7913..7975, 7913..7978, 8072..8263, 8073..8264, 8076..8264		

Seq. No.	44924	Seq. ID	OJ000251_22.0403.C3
Gene No.	94793	Strand	-

Start	10626	End	17366
Name	OJ000251_22.0403.C3.o3.gs	Method	GENSCAN
Start	10626	End	17366
GI	none	Score	.74
Exons	10626..11036, 12845..12950, 13052..13147, 13248..13672, 13998..14083, 14183..14275, 14387..14482, 14564..14671, 16655..16664, 17250..17366		

Seq. No.	44924	Seq. ID	OJ000251_22.0403.C3
Gene No.	94793	Strand	-
Start	10626	End	17366
Name	OJ000251_22.0403.C3.o3.ts	Method	TBLASTX:Soybean
Start	11751	End	11928
GI	none	Score	285
Exons	11751..11927, 11752..11928		

Seq. No.	44924	Seq. ID	OJ000251_22.0403.C3
Gene No.	94793	Strand	-
Start	10626	End	17366
Name	OJ000251_22.0403.C3.o4.tc	Method	TBLASTX:Cress
Start	11767	End	11928
GI	none	Score	238
Exons	11767..11928, 11784..11927		

Seq. No.	44924	Seq. ID	OJ000251_22.0403.C3
Gene No.	94793	Strand	-
Start	10626	End	17366
Name	OJ000251_22.0403.C3.o4.gp	Method	AAT/GAP
Start	12107	End	12918
GI	59833_1.R1084	Score	1340
Exons	12107..12739, 12845..12918		
GI Descrip.	'3738327 6.0e-11 (AC005170) putative serine carboxypeptidase [Arabidopsis thaliana]'		

Seq. No.	44924	Seq. ID	OJ000251_22.0403.C3
Gene No.	94793	Strand	-
Start	10626	End	17366
Name	OJ000251_22.0403.C3.o2.tm	Method	TBLASTX:Maize
Start	12394	End	13399
GI	none	Score	52
Exons	12394..12537, 12426..12464, 12475..12501, 12590..12742, 12591..12743, 12842..12952, 12843..12962, 12843..12962, 13052..13150, 13054..13149, 13228..13383, 13250..13375, 13367..13399		

Seq. No.	44924	Seq. ID	OJ000251_22.0403.C3
Gene No.	94793	Strand	-
Start	10626	End	17366
Name	OJ000251_22.0403.C3.o2.tc	Method	TBLASTX:Cress
Start	12596	End	14276
GI	none	Score	136
Exons	12596..12742, 12603..12743, 12605..12781, 12842..12952, 12843..12953, 13054..13149, 13250..13267, 13269..13361, 13271..13372, 13272..13361, 13454..13672, 13461..13514, 13587..13673, 14022..14084, 14023..14085, 14178..14276, 14182..14259		

Seq. No.	44924	Seq. ID	OJ000251_22.0403.C3
Gene No.	94793	Strand	-
Start	10626	End	17366
Name	OJ000251_22.0403.C3.o3.np	Method	AAT/NAP
Start	12596	End	15463
GI	7269962	Score	1267
Exons	12596..12739, 12845..12950, 13052..13147, 13248..13672, 13998..14083, 14183..14275, 14387..14482, 14564..14717, 15266..15463		
GI Descrip.	(AL161577) SERINE CARBOXYPEPTIDASE II-like protein [Arabidopsis thaliana]		

Seq. No.	44924	Seq. ID	OJ000251_22.0403.C3
Gene No.	94793	Strand	-
Start	10626	End	17366
Name	OJ000251_22.0403.C3.o2.ts	Method	TBLASTX:Soybean
Start	12605	End	14481
GI	none	Score	89
Exons	12605..12742, 12666..12740, 12842..12952, 12918..12962, 13052..13150, 13054..13149, 13245..13367, 13248..13325, 13250..13366, 13363..13401, 13454..13498, 13461..13499, 13547..13678, 13587..13673, 13995..14084, 14178..14276, 14180..14278, 14182..14271, 14305..14349, 14379..14480, 14384..14446, 14388..14480, 14389..14481		

Seq. No.	44924	Seq. ID	OJ000251_22.0403.C3
Gene No.	94793	Strand	-
Start	10626	End	17366
Name	OJ000251_22.0403.C3.o5.gp	Method	AAT/GAP
Start	13453	End	13850
GI	2310570	Score	687
Exons	13453..13850		
GI Descrip.	3738327 6.0e-11 (AC005170) putative serine carboxypeptidase [Arabidopsis thaliana]		

Seq. No.	44924	Seq. ID	OJ000251_22.0403.C3
Gene No.	94793	Strand	-
Start	10626	End	17366
Name	OJ000251_22.0403.C3.o3.tm	Method	TBLASTX:Maize
Start	13454	End	14673
GI	none	Score	41
Exons	13454..13498, 13455..13499, 13556..13678, 13584..13673, 13995..14084, 14178..14276, 14182..14256, 14376..14477, 14388..14480, 14389..14484, 14565..14672, 14584..14673		

Seq. No.	44924	Seq. ID	OJ000251_22.0403.C3
Gene No.	94793	Strand	-
Start	10626	End	17366
Name	OJ000251_22.0403.C3.o3.tc	Method	TBLASTX:Cress
Start	14388	End	14673
GI	none	Score	113
Exons	14388..14480, 14389..14484, 14565..14672, 14566..14673		

Seq. No.	44925	Seq. ID	OJ000251_22.0403.C5
Gene No.	94794	Strand	+
Start	4714	End	9098
Name	OJ000251_22.0403.C5.o2.np	Method	AAT/NAP

Start	4714	End	9098
GI	6753692	Score	404
Exons	4714..4865, 5542..5656, 6073..6167, 6293..6463, 6562..6888, 6991..7134, 7757..7824, 9069..9098		
GI Descrip.	deubiquitinating enzyme 2 gi 2739431 gb AAB95194.1  (U70368) hematopoietic-specific IL-2 deubiquitinating enzyme [Mus musculus]		

Seq. No.	44925	Seq. ID	OJ000251_22.0403.C5
Gene No.	94794	Strand	+
Start	4714	End	9098
Name	OJ000251_22.0403.C5.o3.gs	Method	GENSCAN
Start	5512	End	9049
GI	none	Score	.48
Exons	5512..5656, 6291..6463, 6562..6888, 6991..7116, 7739..9049		

Seq. No.	44925	Seq. ID	OJ000251_22.0403.C5
Gene No.	94795	Strand	-
Start	1	End	2222
Name	OJ000251_22.0403.C5.o1.np	Method	AAT/NAP
Start	1	End	1670
GI	4559347	Score	992
Exons	1..185, 339..500, 581..799, 996..1670		
GI Descrip.	(AC006585) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	44925	Seq. ID	OJ000251_22.0403.C5
Gene No.	94795	Strand	-
Start	1	End	2222
Name	OJ000251_22.0403.C5.o1.gs	Method	GENSCAN
Start	48	End	2222
GI	none	Score	.86
Exons	48..500, 701..799, 996..1696, 2150..2222		

Seq. No.	44925	Seq. ID	OJ000251_22.0403.C5
Gene No.	94796	Strand	-
Start	3179	End	4514
Name	OJ000251_22.0403.C5.o2.gs	Method	GENSCAN
Start	3179	End	4514
GI	none	Score	.87
Exons	3179..3294, 4358..4514		

Seq. No.	44925	Seq. ID	OJ000251_22.0403.C5
Gene No.	94797	Strand	
Start	4902	End	6134
Name	OJ000251_22.0403.C5.o2.tm	Method	TBLASTX:Maize
Start	4902	End	6134
GI	none	Score	109
Exons	4902..5018, 4903..5019, 5107..5151, 5541..5657, 5542..5661, 5542..5676, 5555..5662, 6074..6130, 6075..6134		

Seq. No.	44925	Seq. ID	OJ000251_22.0403.C5
Gene No.	94798	Strand	
Start	6140	End	7897
Name	OJ000251_22.0403.C5.o1.tm	Method	TBLASTX:Maize
Start	6140	End	7897
GI	none	Score	59
Exons	6140..6178, 6141..6188, 6259..6465, 6290..6472, 6291..6464,		

6293..6472, 6556..6684, 6558..6875, 6559..6900, 6561..6878,  
6742..6900, 6779..6904, 6990..7118, 6991..7119, 7001..7132,  
7004..7132, 7718..7849, 7736..7864, 7738..7866, 7738..7866,  
7856..7897

Seq. No.	44925	Seq. ID	OJ000251_22.0403.C5
Gene No.	94798	Strand	
Start	6140	End	7897
Name	OJ000251_22.0403.C5.o1.ts	Method	TBLASTX:Soybean
Start	6651	End	7083
GI	none	Score	79
Exons	6651..6800, 6651..6797, 6652..6879, 6996..7082, 6997..7083		

Seq. No.	44925	Seq. ID	OJ000251_22.0403.C5
Gene No.	94798	Strand	
Start	6140	End	7897
Name	OJ000251_22.0403.C5.o1.tc	Method	TBLASTX:Cress
Start	6667	End	7807
GI	none	Score	147
Exons	6667..6801, 6823..6897, 7002..7118, 7003..7122, 7005..7118, 7736..7807, 7738..7806		

Seq. No.	44926	Seq. ID	OJ000251_22.0403.C6
Gene No.	94799	Strand	+
Start	39	End	2271
Name	OJ000251_22.0403.C6.o1.gs	Method	GENSCAN
Start	39	End	2271
GI	none	Score	.47
Exons	39..756, 842..935, 1308..1366, 2195..2271		

Seq. No.	44926	Seq. ID	OJ000251_22.0403.C6
Gene No.	94800	Strand	+
Start	3110	End	3824
Name	OJ000251_22.0403.C6.o2.gs	Method	GENSCAN
Start	3110	End	3824
GI	none	Score	.97
Exons	3110..3452, 3529..3824		

Seq. No.	44927	Seq. ID	OJ000251_22.0403.C7
Gene No.	94801	Strand	+
Start	1	End	335
Name	OJ000251_22.0403.C7.o1.np	Method	AAT/NAP
Start	1	End	335
GI	7486317	Score	125
Exons	1..335		
GI Descrip.	hypothetical protein F28M20.10 - Arabidopsis thaliana gi 3281848 emb CAA19743.1  (AL031004) putative protein [Arabidopsis thaliana] gi 7270083 emb CAB79898.1  (AL161579) putative protein [Arabidopsis thaliana]		

Seq. No.	44927	Seq. ID	OJ000251_22.0403.C7
Gene No.	94801	Strand	+
Start	1	End	335
Name	OJ000251_22.0403.C7.o1.gs	Method	GENSCAN
Start	60	End	240
GI	none	Score	.96
Exons	60..240		

Seq. No.	44927	Seq. ID	OJ000251_22.0403.C7
Gene No.	94802	Strand	+
Start	5558	End	6306
Name	OJ000251_22.0403.C7.o3.gs	Method	GENSCAN
Start	5558	End	6306
GI	none	Score	.87
Exons	5558..5621, 5872..6068, 6073..6306		

Seq. No.	44927	Seq. ID	OJ000251_22.0403.C7
Gene No.	94803	Strand	-
Start	979	End	6488
Name	OJ000251_22.0403.C7.o1.gp	Method	AAT/GAP
Start	979	End	2850
GI	11174_1.R1084	Score	1446
Exons	979..1432, 1531..1680, 2591..2737, 2818..2850		
GI Descrip.	'6015437/dbj AB008112.1 AB008112 6.0e-11 Homo sapiens PEX1 mRNA, complete cds'		

Seq. No.	44927	Seq. ID	OJ000251_22.0403.C7
Gene No.	94803	Strand	-
Start	979	End	6488
Name	OJ000251_22.0403.C7.o2.np	Method	AAT/NAP
Start	1369	End	6488
GI	7288014	Score	876
Exons	1369..1432, 1531..1680, 2591..2737, 2818..2905, 4006..4151, 4298..4526, 4630..4939, 6431..6488		
GI Descrip.	(AL132971) RING finger-like protein [Arabidopsis thaliana]		

Seq. No.	44927	Seq. ID	OJ000251_22.0403.C7
Gene No.	94803	Strand	-
Start	979	End	6488
Name	OJ000251_22.0403.C7.o2.gs	Method	GENSCAN
Start	1385	End	4991
GI	none	Score	.59
Exons	1385..1432, 1531..1680, 2591..2737, 2818..2905, 4006..4136, 4298..4526, 4630..4825, 4952..4991		

Seq. No.	44927	Seq. ID	OJ000251_22.0403.C7
Gene No.	94803	Strand	-
Start	979	End	6488
Name	OJ000251_22.0403.C7.o2.gp	Method	AAT/GAP
Start	4038	End	4723
GI	2309927	Score	788
Exons	4038..4151, 4298..4526, 4630..4723		

Seq. No.	44927	Seq. ID	OJ000251_22.0403.C7
Gene No.	94803	Strand	-
Start	979	End	6488
Name	OJ000251_22.0403.C7.o4.gp	Method	AAT/GAP
Start	5339	End	5622
GI	LIB3474-007-P1-K1-C5	Score	462
Exons	5339..5622		
GI Descrip.	'6015437/dbj AB008112.1 AB008112 5.0e-12 Homo sapiens PEX1 mRNA, complete cds'		

Seq. No.	44927	Seq. ID	OJ000251_22.0403.C7
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Gene No.	94804	Strand	-
Start	6841	End	8335
Name	OJ000251_22.0403.C7.o1.tm	Method	TBLASTX:Maize
Start	1347	End	4923
GI	none	Score	62
Exons	1347..1463, 1385..1426, 1531..1680, 1532..1684, 1551..1706, 1559..1681, 2585..2743, 2586..2744, 2590..2745, 2608..2745, 2812..2904, 2813..2905, 2822..2905, 2823..2906, 2845..2907, 4006..4158, 4008..4157, 4298..4525, 4298..4528, 4491..4532, 4629..4724, 4629..4727, 4630..4725, 4724..4777, 4725..4775, 4842..4922, 4843..4923		

Seq. No.	44927	Seq. ID	OJ000251_22.0403.C7
Gene No.	94804	Strand	-
Start	6841	End	8335
Name	OJ000251_22.0403.C7.o2.ts	Method	TBLASTX:Soybean
Start	1388	End	4157
GI	none	Score	111
Exons	1388..1426, 1531..1680, 1532..1684, 2579..2629, 2633..2743, 2661..2732, 2674..2733, 2815..2880, 2815..2904, 2819..2905, 4006..4152, 4008..4157		

Seq. No.	44927	Seq. ID	OJ000251_22.0403.C7
Gene No.	94804	Strand	-
Start	6841	End	8335
Name	OJ000251_22.0403.C7.o1.ts	Method	TBLASTX:Soybean
Start	4349	End	4923
GI	none	Score	92
Exons	4349..4525, 4349..4528, 4491..4535, 4629..4727, 4630..4716, 4722..4805, 4729..4752, 4891..4923		

Seq. No.	44927	Seq. ID	OJ000251_22.0403.C7
Gene No.	94804	Strand	-
Start	6841	End	8335
Name	OJ000251_22.0403.C7.o4.gs	Method	GENSCAN
Start	6841	End	8335
GI	none	Score	.74
Exons	6841..6983, 8094..8166, 8249..8335		

Seq. No.	44928	Seq. ID	OJ000251_22.0403.C8
Gene No.	94805	Strand	+
Start	798	End	1151
Name	OJ000251_22.0403.C8.o1.gs	Method	GENSCAN
Start	798	End	1151
GI	none	Score	.88
Exons	798..1151		

Seq. No.	44928	Seq. ID	OJ000251_22.0403.C8
Gene No.	94806	Strand	-
Start	1278	End	9222
Name	OJ000251_22.0403.C8.o2.gs	Method	GENSCAN
Start	1278	End	9222
GI	none	Score	.77
Exons	1278..1667, 2163..2306, 3071..3235, 3702..3784, 6717..6863, 7503..7632, 8285..8470, 9079..9222		

Seq. No.	44928	Seq. ID	OJ000251_22.0403.C8
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Gene No. 94806 Strand -  
 Start 1278 End 9222  
 Name OJ000251\_22.0403.C8.o1.np Method AAT/NAP  
 Start 1281 End 8998  
 GI 7485561 Score 330  
 Exons 1281..1667, 2163..2322, 3150..3290, 3534..3746, 5029..5264,  
 6671..7032, 7127..7286, 7410..7448, 7503..7612, 8208..8470,  
 8912..8998  
 GI Descrip. hypothetical protein F16G20.60 - Arabidopsis thaliana  
 gi|3451061|emb|CAA20457.1| (AL031326) putative protein  
 [Arabidopsis thaliana] gi|7269184|emb|CAB79291.1| (AL161559)  
 putative protein [Arabidopsis thaliana]

Seq. No. 44929 Seq. ID OJ000251\_22.0403.C9  
 Gene No. 94807 Strand +  
 Start 9554 End 13878  
 Name OJ000251\_22.0403.C9.o1.gp Method AAT/GAP  
 Start 9514 End 10130  
 GI uC-osflcyp030f05b1 Score 930  
 Exons 9514..9946, 10067..10130  
 GI Descrip. '4263711/gb|AAD15397| 5.0e-28 (AC006223) putative  
 CCR4-associated transcription factor [Arabidopsis thaliana]'

Seq. No. 44929 Seq. ID OJ000251\_22.0403.C9  
 Gene No. 94807 Strand +  
 Start 9554 End 13878  
 Name OJ000251\_22.0403.C9.o3.gs Method GENSCAN  
 Start 9554 End 13878  
 GI none Score .55  
 Exons 9554..9946, 10067..10150, 10334..10585, 10774..10839,  
 11915..11980, 12960..13296, 13566..13631, 13844..13878

Seq. No. 44929 Seq. ID OJ000251\_22.0403.C9  
 Gene No. 94807 Strand +  
 Start 9554 End 13878  
 Name OJ000251\_22.0403.C9.o2.np Method AAT/NAP  
 Start 10067 End 13367  
 GI 4115386 Score 435  
 Exons 10067..10130, 10350..10519, 10774..10839, 11915..11980,  
 12066..12104, 12960..13367  
 GI Descrip. (AC005967) unknown protein [Arabidopsis thaliana]

Seq. No. 44929 Seq. ID OJ000251\_22.0403.C9  
 Gene No. 94808 Strand -  
 Start 100 End 3872  
 Name OJ000251\_22.0403.C9.o1.np Method AAT/NAP  
 Start 100 End 3244  
 GI 4580457 Score 283  
 Exons 100..477, 1163..1309, 1430..1645, 2345..2563, 2995..3244  
 GI Descrip. (AC006081) hypothetical protein [Arabidopsis thaliana]

Seq. No. 44929 Seq. ID OJ000251\_22.0403.C9  
 Gene No. 94808 Strand -  
 Start 100 End 3872  
 Name OJ000251\_22.0403.C9.o1.gs Method GENSCAN  
 Start 144 End 3872  
 GI none Score .68

Exons 144..477, 1430..1645, 2378..2563, 2995..3081, 3729..3872

Seq. No. 44929 Seq. ID OJ000251\_22.0403.C9  
Gene No. 94809 Strand -  
Start 4495 End 6039  
Name OJ000251\_22.0403.C9.o2.gs Method GENSCAN  
Start 4495 End 6039  
GI none Score .8  
Exons 4495..4668, 5206..5287, 5969..6039

Seq. No. 44929 Seq. ID OJ000251\_22.0403.C9  
Gene No. 94810 Strand -  
Start 14843 End 16726  
Name OJ000251\_22.0403.C9.o2.tm Method TBLASTX:Maize  
Start 9587 End 9950  
GI none Score 124  
Exons 9587..9664, 9589..9663, 9763..9783, 9764..9823, 9788..9925, 9902..9946, 9930..9950

Seq. No. 44929 Seq. ID OJ000251\_22.0403.C9  
Gene No. 94810 Strand -  
Start 14843 End 16726  
Name OJ000251\_22.0403.C9.o4.gs Method GENSCAN  
Start 14843 End 16677  
GI none Score .86  
Exons 14843..14859, 15553..15658, 16145..16349, 16594..16677

Seq. No. 44929 Seq. ID OJ000251\_22.0403.C9  
Gene No. 94810 Strand -  
Start 14843 End 16726  
Name OJ000251\_22.0403.C9.o3.np Method AAT/NAP  
Start 15331 End 16726  
GI 5281020 Score 331  
Exons 15331..15452, 15553..15658, 16145..16349, 16594..16726  
GI Descrip. (Z97339) ATP-dependent RNA helicase like protein [Arabidopsis thaliana]

Seq. No. 44929 Seq. ID OJ000251\_22.0403.C9  
Gene No. 94810 Strand -  
Start 14843 End 16726  
Name OJ000251\_22.0403.C9.o1.ts Method TBLASTX:Soybean  
Start 16142 End 16721  
GI none Score 138  
Exons 16142..16348, 16143..16352, 16596..16721

Seq. No. 44929 Seq. ID OJ000251\_22.0403.C9  
Gene No. 94810 Strand -  
Start 14843 End 16726  
Name OJ000251\_22.0403.C9.o1.tm Method TBLASTX:Maize  
Start 16576 End 16724  
GI none Score 124  
Exons 16576..16716, 16581..16724, 16587..16724

Seq. No. 44930 Seq. ID OJ000251\_22.0403.C10  
Gene No. 94811 Strand +  
Start 1 End 4538  
Name OJ000251\_22.0403.C10.o2.np Method AAT/NAP

Start	1	End	3347
GI	2459436	Score	227
Exons	1..72, 2863..3347		
GI Descrip.	(AC002332) unknown protein [Arabidopsis thaliana]		

Seq. No.	44930	Seq. ID	OJ000251_22.0403.C10
Gene No.	94811	Strand	+
Start	1	End	4538
Name	OJ000251_22.0403.C10.o2.gs	Method	GENSCAN
Start	2559	End	3821
GI	none	Score	.95
Exons	2559..3821		

Seq. No.	44930	Seq. ID	OJ000251_22.0403.C10
Gene No.	94811	Strand	+
Start	1	End	4538
Name	OJ000251_22.0403.C10.o3.np	Method	AAT/NAP
Start	3230	End	4538
GI	5777617	Score	84
Exons	3230..3284, 4441..4538		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	44930	Seq. ID	OJ000251_22.0403.C10
Gene No.	94812	Strand	-
Start	1	End	2457
Name	OJ000251_22.0403.C10.o1.np	Method	AAT/NAP
Start	1	End	1395
GI	5281020	Score	771
Exons	1..138, 328..479, 800..1054, 1183..1395		
GI Descrip.	(Z97339) ATP-dependent RNA helicase like protein [Arabidopsis thaliana]		

Seq. No.	44930	Seq. ID	OJ000251_22.0403.C10
Gene No.	94812	Strand	-
Start	1	End	2457
Name	OJ000251_22.0403.C10.o1.ts	Method	TBLASTX:Soybean
Start	3	End	1401
GI	none	Score	64
Exons	3..101, 373..480, 402..491, 797..823, 837..893, 839..895, 957..1055, 1159..1371, 1172..1396, 1180..1401		

Seq. No.	44930	Seq. ID	OJ000251_22.0403.C10
Gene No.	94812	Strand	-
Start	1	End	2457
Name	OJ000251_22.0403.C10.o1.tm	Method	TBLASTX:Maize
Start	63	End	1381
GI	none	Score	91
Exons	63..140, 72..140, 76..141, 391..486, 393..491, 400..480, 797..1039, 798..1055, 800..1105, 1164..1256, 1168..1380, 1172..1381, 1180..1380, 1181..1381		

Seq. No.	44930	Seq. ID	OJ000251_22.0403.C10
Gene No.	94812	Strand	-
Start	1	End	2457
Name	OJ000251_22.0403.C10.o1.gs	Method	GENSCAN
Start	800	End	2457
GI	none	Score	.87

Exons 800..1054, 1237..1417, 2027..2457

Seq. No.	44930	Seq. ID	OJ000251_22.0403.C10
Gene No.	94812	Strand	-
Start	1	End	2457
Name	OJ000251_22.0403.C10.o1.tc	Method	TBLASTX:Cress
Start	1172	End	1420
GI	none	Score	236
Exons	1172..1420, 1172..1417, 1180..1419		

Seq. No.	44930	Seq. ID	OJ000251_22.0403.C10
Gene No.	94812	Strand	-
Start	1	End	2457
Name	OJ000251_22.0403.C10.o3.tm	Method	TBLASTX:Maize
Start	2018	End	2161
GI	none	Score	187
Exons	2018..2161, 2053..2145		

Seq. No.	44930	Seq. ID	OJ000251_22.0403.C10
Gene No.	94813	Strand	-
Start	2957	End	3473
Name	OJ000251_22.0403.C10.o2.tc	Method	TBLASTX:Cress
Start	2957	End	3473
GI	none	Score	194
Exons	2957..3187, 3021..3191, 3246..3338, 3372..3473		

Seq. No.	44930	Seq. ID	OJ000251_22.0403.C10
Gene No.	94813	Strand	-
Start	2957	End	3473
Name	OJ000251_22.0403.C10.o2.ts	Method	TBLASTX:Soybean
Start	2967	End	3323
GI	none	Score	177
Exons	2967..3194, 3020..3187, 3252..3323		

Seq. No.	44930	Seq. ID	OJ000251_22.0403.C10
Gene No.	94813	Strand	-
Start	2957	End	3473
Name	OJ000251_22.0403.C10.o2.tm	Method	TBLASTX:Maize
Start	3027	End	3467
GI	none	Score	181
Exons	3027..3200, 3032..3199, 3252..3467, 3254..3361		

Seq. No.	44930	Seq. ID	OJ000251_22.0403.C10
Gene No.	94814	Strand	-
Start	3489	End	3806
Name	OJ000251_22.0403.C10.o1.tw	Method	TBLASTX:Wheat
Start	3489	End	3806
GI	none	Score	81
Exons	3489..3578, 3497..3574, 3609..3806, 3609..3776, 3611..3805		

Seq. No.	44931	Seq. ID	OJ000251_22.0403.C11
Gene No.	94815	Strand	+
Start	344	End	2194
Name	OJ000251_22.0403.C11.o1.gs	Method	GENSCAN
Start	344	End	2194
GI	none	Score	.57
Exons	344..786, 822..1508, 2113..2194		

Seq. No.	44931	Seq. ID	OJ000251_22.0403.C11
Gene No.	94815	Strand	+
Start	344	End	2194
Name	OJ000251_22.0403.C11.o1.np	Method	AAT/NAP
Start	571	End	1065
GI	2459436	Score	178
Exons	571..1065		
GI Descrip.	(AC002332) unknown protein [Arabidopsis thaliana]		

Seq. No.	44931	Seq. ID	OJ000251_22.0403.C11
Gene No.	94815	Strand	+
Start	344	End	2194
Name	OJ000251_22.0403.C11.o1.tc	Method	TBLASTX:Cress
Start	734	End	1074
GI	none	Score	77
Exons	734..802, 802..903, 976..1074		

Seq. No.	44931	Seq. ID	OJ000251_22.0403.C11
Gene No.	94815	Strand	+
Start	344	End	2194
Name	OJ000251_22.0403.C11.o1.tw	Method	TBLASTX:Wheat
Start	1297	End	1503
GI	none	Score	192
Exons	1297..1503, 1308..1502		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94816	Strand	+
Start	369	End	4149
Name	OJ000251_22.0403.C12.o1.gs	Method	GENSCAN
Start	369	End	4149
GI	none	Score	.7
Exons	369..433, 1158..1799, 2035..2442, 3196..4149		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94816	Strand	+
Start	369	End	4149
Name	OJ000251_22.0403.C12.o2.np	Method	AAT/NAP
Start	3322	End	4148
GI	6503290	Score	987
Exons	3322..4148		
GI Descrip.	(AC011713) Similar to gb U21855 CCR4-associated factor 1 (CAF1) from Mus musculus. ESTs gb AAA394972, gb AA585812 and gb H77015 come from this gene. [Arabidopsis thaliana]		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94817	Strand	+
Start	4226	End	4568
Name	OJ000251_22.0403.C12.o2.gp	Method	AAT/GAP
Start	4226	End	4568
GI	4715326	Score	635
Exons	4226..4568		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94818	Strand	+
Start	21626	End	24468
Name	OJ000251_22.0403.C12.o4.gs	Method	GENSCAN

Start	21626	End	24468
GI	none	Score	.45
Exons	21626..21685, 24234..24294, 24317..24468		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94819	Strand	+
Start	25512	End	25828
Name	OJ000251_22.0403.C12.o6.gp	Method	AAT/GAP
Start	25512	End	25828
GI	none	Score	550
Exons	25512..25828		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94820	Strand	-
Start	1	End	4912
Name	OJ000251_22.0403.C12.o1.np	Method	AAT/NAP
Start	1	End	4912
GI	1903347	Score	399
Exons	1..21, 1062..1679, 4884..4912		
GI Descrip.	(AC000104) EST gb ATTS5672 comes from this gene. [Arabidopsis thaliana]		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94820	Strand	-
Start	1	End	4912
Name	OJ000251_22.0403.C12.o1.gp	Method	AAT/GAP
Start	3913	End	4217
GI	3107363	Score	594
Exons	3913..4217		
GI Descrip.	4263711/gb AAD15397  5.0e-28 (AC006223) putative CCR4-associated transcription factor [Arabidopsis thaliana]		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94821	Strand	-
Start	6484	End	16787
Name	OJ000251_22.0403.C12.o2.gs	Method	GENSCAN
Start	6484	End	8321
GI	none	Score	.96
Exons	6484..7731, 8016..8321		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94821	Strand	-
Start	6484	End	16787
Name	OJ000251_22.0403.C12.o4.np	Method	AAT/NAP
Start	6585	End	12870
GI	6623883	Score	675
Exons	6585..6618, 10090..10554, 11151..11227, 11573..11801, 11832..11983, 12204..12356, 12744..12870		
GI Descrip.	(AC018722) putative two-component response regulator protein [Arabidopsis thaliana]		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94821	Strand	-
Start	6484	End	16787
Name	OJ000251_22.0403.C12.o3.gp	Method	AAT/GAP
Start	8820	End	9424
GI	3768839	Score	786

Exons 8820..9170, 9349..9424

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94821	Strand	-
Start	6484	End	16787
Name	OJ000251_22.0403.C12.o3.gs	Method	GENSCAN
Start	9099	End	16787
GI	none	Score	.56
Exons	9099..9170, 9349..10409, 11573..11983, 12029..12175, 12204..12356, 12793..12886, 13128..13161, 13492..13631, 15897..16038, 16750..16787		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94821	Strand	-
Start	6484	End	16787
Name	OJ000251_22.0403.C12.o4.gp	Method	AAT/GAP
Start	9411	End	9710
GI	2280643	Score	566
Exons	9411..9710		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94821	Strand	-
Start	6484	End	16787
Name	OJ000251_22.0403.C12.o5.gp	Method	AAT/GAP
Start	12857	End	13291
GI	569176	Score	744
Exons	12857..13291		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94822	Strand	-
Start	24975	End	33090
Name	OJ000251_22.0403.C12.o5.gs	Method	GENSCAN
Start	24975	End	33090
GI	none	Score	.69
Exons	24975..25058, 25112..25345, 26019..26252, 26505..26552, 26645..26881, 27605..27641, 28974..29252, 29426..29704, 31779..31944, 32982..33090		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94822	Strand	-
Start	24975	End	33090
Name	OJ000251_22.0403.C12.o5.np	Method	AAT/NAP
Start	25983	End	29284
GI	2980764	Score	965
Exons	25983..26252, 26505..26606, 26645..26881, 28953..29284		
GI Descrip.	(AL022198) putative protein [Arabidopsis thaliana]		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94823	Strand	-
Start	33959	End	37893
Name	OJ000251_22.0403.C12.o7.tm	Method	TBLASTX:Maize
Start	1068	End	1326
GI	none	Score	183
Exons	1068..1325, 1069..1182, 1113..1205, 1222..1326		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94823	Strand	-



Start	33959	End	37893
Name	OJ000251_22.0403.C12.o4.tc	Method	TBLASTX:Cress
Start	1167	End	1491
GI	none	Score	69
Exons	1167..1319, 1231..1320, 1384..1491, 1395..1490		
Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94823	Strand	-
Start	33959	End	37893
Name	OJ000251_22.0403.C12.o12.tm	Method	TBLASTX:Maize
Start	1387	End	1653
GI	none	Score	100
Exons	1387..1488, 1398..1487, 1566..1640, 1567..1653		
Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94823	Strand	-
Start	33959	End	37893
Name	OJ000251_22.0403.C12.o6.ts	Method	TBLASTX:Soybean
Start	1401	End	1641
GI	none	Score	70
Exons	1401..1490, 1435..1488, 1572..1640, 1579..1641		
Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94823	Strand	-
Start	33959	End	37893
Name	OJ000251_22.0403.C12.o1.tc	Method	TBLASTX:Cress
Start	3343	End	4132
GI	none	Score	264
Exons	3343..3447, 3358..3597, 3432..3482, 3613..4131, 3619..4113, 3869..4132		
Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94823	Strand	-
Start	33959	End	37893
Name	OJ000251_22.0403.C12.o1.ts	Method	TBLASTX:Soybean
Start	3343	End	4132
GI	none	Score	303
Exons	3343..3447, 3358..3597, 3429..3482, 3531..3596, 3613..4131, 3619..4113, 3621..4127, 3848..4132		
Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94823	Strand	-
Start	33959	End	37893
Name	OJ000251_22.0403.C12.o3.tm	Method	TBLASTX:Maize
Start	3349	End	3807
GI	none	Score	392
Exons	3349..3447, 3358..3669, 3423..3665, 3627..3806, 3670..3807		
Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94823	Strand	-
Start	33959	End	37893
Name	OJ000251_22.0403.C12.o5.tm	Method	TBLASTX:Maize
Start	3903	End	4150
GI	none	Score	420
Exons	3903..4148, 3904..4149, 3905..4150		
Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12

Gene No.	94823	Strand	-
Start	33959	End	37893
Name	OJ000251_22.0403.C12.o10.tm	Method	TBLASTX:Maize
Start	6487	End	6663
GI	none	Score	169
Exons	6487..6663, 6489..6662, 6490..6663		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94823	Strand	-
Start	33959	End	37893
Name	OJ000251_22.0403.C12.o4.ts	Method	TBLASTX:Soybean
Start	6949	End	7479
GI	none	Score	215
Exons	6949..7056, 7078..7479		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94823	Strand	-
Start	33959	End	37893
Name	OJ000251_22.0403.C12.o5.tc	Method	TBLASTX:Cress
Start	7210	End	7737
GI	none	Score	218
Exons	7210..7737		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94823	Strand	-
Start	33959	End	37893
Name	OJ000251_22.0403.C12.o11.tm	Method	TBLASTX:Maize
Start	7228	End	7572
GI	none	Score	75
Exons	7228..7572, 7357..7572		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94823	Strand	-
Start	33959	End	37893
Name	OJ000251_22.0403.C12.o2.tm	Method	TBLASTX:Maize
Start	9016	End	10598
GI	none	Score	37
Exons	9016..9066, 9018..9065, 9039..9128, 9068..9130, 9100..9129, 9121..9174, 9132..9188, 9133..9186, 9302..9448, 9349..9483, 9458..9523, 9574..9729, 9590..9688, 9618..9734, 9722..10009, 9725..9811, 9733..10011, 9848..10030, 9979..10101, 9980..10117, 10019..10117, 10110..10232, 10115..10231, 10138..10233, 10240..10266, 10264..10368, 10265..10369, 10367..10426, 10372..10476, 10375..10476, 10377..10490, 10379..10477, 10467..10598, 10469..10573		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94823	Strand	-
Start	33959	End	37893
Name	OJ000251_22.0403.C12.o3.tc	Method	TBLASTX:Cress
Start	11151	End	12841
GI	none	Score	68
Exons	11151..11225, 11157..11225, 11572..11661, 11574..11723, 11829..11984, 11863..11982, 12196..12363, 12208..12351, 12745..12840, 12746..12841		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
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Gene No.	94823	Strand	-
Start	33959	End	37893
Name	OJ000251_22.0403.C12.o8.tm	Method	TBLASTX:Maize
Start	11826	End	12850
GI	none	Score	205
Exons	11826..11984, 11827..11982, 11834..11983, 12196..12363, 12205..12345, 12735..12791, 12745..12849, 12746..12850		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94823	Strand	-
Start	33959	End	37893
Name	OJ000251_22.0403.C12.o5.ts	Method	TBLASTX:Soybean
Start	11856	End	12841
GI	none	Score	128
Exons	11856..11984, 11857..11982, 12196..12363, 12205..12351, 12745..12840, 12746..12841		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94823	Strand	-
Start	33959	End	37893
Name	OJ000251_22.0403.C12.o1.tw	Method	TBLASTX:Wheat
Start	12178	End	12364
GI	none	Score	96
Exons	12178..12357, 12199..12342, 12200..12364		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94823	Strand	-
Start	33959	End	37893
Name	OJ000251_22.0403.C12.o6.tm	Method	TBLASTX:Maize
Start	25967	End	26886
GI	none	Score	61
Exons	25967..26023, 25971..26021, 25975..26034, 25975..26022, 26040..26252, 26043..26168, 26044..26256, 26475..26558, 26505..26681, 26506..26559, 26633..26881, 26645..26884, 26646..26885, 26646..26885, 26647..26886		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94823	Strand	-
Start	33959	End	37893
Name	OJ000251_22.0403.C12.o3.ts	Method	TBLASTX:Soybean
Start	26028	End	29044
GI	none	Score	125
Exons	26028..26252, 26077..26256, 26505..26681, 26506..26553, 26633..26875, 26645..26884, 26652..26882, 27605..27655, 28976..29044		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94823	Strand	-
Start	33959	End	37893
Name	OJ000251_22.0403.C12.o2.tc	Method	TBLASTX:Cress
Start	26062	End	29288
GI	none	Score	134
Exons	26062..26199, 26065..26190, 26085..26219, 26187..26252, 26496..26555, 26518..26553, 26645..26884, 26652..26885, 27605..27655, 28976..29146, 28983..29147, 29201..29251, 29201..29284, 29262..29288		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94823	Strand	-
Start	33959	End	37893
Name	OJ000251_22.0403.C12.o9.tm	Method	TBLASTX:Maize
Start	29003	End	29284
GI	none	Score	117
Exons	29003..29236, 29004..29171, 29219..29284		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94823	Strand	-
Start	33959	End	37893
Name	OJ000251_22.0403.C12.o6.gs	Method	GENSCAN
Start	33959	End	37818
GI	none	Score	.55
Exons	33959..34322, 34989..35068, 35257..35356, 35456..35682, 35882..36708, 36789..37818		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94823	Strand	-
Start	33959	End	37893
Name	OJ000251_22.0403.C12.o1.tm	Method	TBLASTX:Maize
Start	34888	End	36580
GI	none	Score	100
Exons	34888..35073, 34888..34989, 34889..35074, 34890..35075, 35252..35332, 35254..35319, 35256..35327, 35313..35357, 35317..35358, 35318..35359, 35454..35597, 35455..35625, 35456..35683, 35456..35623, 35530..35643, 35627..35683, 35629..35685, 35630..35686, 35879..35947, 35879..36580, 35889..36578, 35981..36580		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94823	Strand	-
Start	33959	End	37893
Name	OJ000251_22.0403.C12.o6.np	Method	AAT/NAP
Start	34892	End	37893
GI	7269836	Score	1743
Exons	34892..35053, 35245..35356, 35456..35682, 35882..37893		
GI Descrip.	(AL161574) putative protein [Arabidopsis thaliana]		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94823	Strand	-
Start	33959	End	37893
Name	OJ000251_22.0403.C12.o2.ts	Method	TBLASTX:Soybean
Start	35891	End	36298
GI	none	Score	72
Exons	35891..35986, 35892..35975, 35961..36239, 35972..36238, 36242..36298		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94823	Strand	-
Start	33959	End	37893
Name	OJ000251_22.0403.C12.o4.tm	Method	TBLASTX:Maize
Start	36865	End	37378
GI	none	Score	58
Exons	36865..36909, 36866..36910, 36868..36924, 36870..36926, 36936..37289, 36948..37376, 36950..37378, 36958..37377, 36983..37378		

Seq. No.	44932	Seq. ID	OJ000251_22.0403.C12
Gene No.	94823	Strand	-
Start	33959	End	37893
Name	OJ000251_22.0403.C12.o6.tc	Method	TBLASTX:Cress
Start	37252	End	37482
GI	none	Score	211
Exons	37252..37482		

Seq. No.	44933	Seq. ID	OJ000251_22.0403.C13
Gene No.	94824	Strand	+
Start	11623	End	17276
Name	OJ000251_22.0403.C13.o3.gs	Method	GENSCAN
Start	11623	End	16768
GI	none	Score	.73
Exons	11623..12146, 12166..14018, 14135..15413, 15448..15625, 15745..15895, 15971..16243, 16262..16462, 16501..16768		

Seq. No.	44933	Seq. ID	OJ000251_22.0403.C13
Gene No.	94824	Strand	+
Start	11623	End	17276
Name	OJ000251_22.0403.C13.o3.np	Method	AAT/NAP
Start	14728	End	17036
GI	7248394	Score	3112
Exons	14728..15376, 15420..15701, 15971..17036		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15011 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	44933	Seq. ID	OJ000251_22.0403.C13
Gene No.	94824	Strand	+
Start	11623	End	17276
Name	OJ000251_22.0403.C13.o4.np	Method	AAT/NAP
Start	15437	End	17276
GI	7485351	Score	268
Exons	15437..15542, 15794..15895, 16816..17276		
GI Descrip.	hypothetical protein F10M6.140 - Arabidopsis thaliana gi 2864621 emb CAA16968.1  (AL021811) hypothetical protein [Arabidopsis thaliana] gi 7270126 emb CAB79940.1  (AL161580) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	44933	Seq. ID	OJ000251_22.0403.C13
Gene No.	94825	Strand	-
Start	1	End	4461
Name	OJ000251_22.0403.C13.o1.np	Method	AAT/NAP
Start	1	End	4461
GI	7269836	Score	1314
Exons	1..339, 507..726, 808..984, 1244..1349, 2068..2147, 2998..3158, 3233..3278, 3470..3592, 4071..4145, 4261..4461		
GI Descrip.	(AL161574) putative protein [Arabidopsis thaliana]		

Seq. No.	44933	Seq. ID	OJ000251_22.0403.C13
Gene No.	94825	Strand	-
Start	1	End	4461
Name	OJ000251_22.0403.C13.o1.gs	Method	GENSCAN

Start	220	End	4461
GI	none	Score	.76
Exons	220..726, 808..984, 1127..1349, 2068..2147, 2998..3158, 3233..3278, 3470..3592, 4071..4145, 4261..4461		

Seq. No.	44933	Seq. ID	OJ000251_22.0403.C13
Gene No.	94826	Strand	-
Start	7008	End	11353
Name	OJ000251_22.0403.C13.o3.tm	Method	TBLASTX:Maize
Start	654	End	3120
GI	none	Score	67
Exons	654..728, 655..741, 655..729, 774..986, 805..1002, 806..985, 808..987, 1231..1368, 1241..1348, 1243..1377, 2058..2147, 2065..2148, 2067..2150, 2995..3030, 2997..3119, 2998..3120, 2999..3118, 3000..3119, 3073..3120		

Seq. No.	44933	Seq. ID	OJ000251_22.0403.C13
Gene No.	94826	Strand	-
Start	7008	End	11353
Name	OJ000251_22.0403.C13.o2.np	Method	AAT/NAP
Start	6577	End	11093
GI	4680492	Score	549
Exons	6577..6932, 7928..7965, 11068..11093		
GI Descrip.	(AF119222) putative reverse transcriptase [Oryza sativa]		

Seq. No.	44933	Seq. ID	OJ000251_22.0403.C13
Gene No.	94826	Strand	-
Start	7008	End	11353
Name	OJ000251_22.0403.C13.o2.gs	Method	GENSCAN
Start	7008	End	11353
GI	none	Score	.68
Exons	7008..7178, 8875..9012, 9899..9975, 10971..11178, 11318..11353		

Seq. No.	44933	Seq. ID	OJ000251_22.0403.C13
Gene No.	94827	Strand	-
Start	13319	End	13615
Name	OJ000251_22.0403.C13.o4.tm	Method	TBLASTX:Maize
Start	13319	End	13615
GI	none	Score	157
Exons	13319..13444, 13336..13443, 13469..13615, 13474..13590		

Seq. No.	44933	Seq. ID	OJ000251_22.0403.C13
Gene No.	94828	Strand	-
Start	14839	End	15189
Name	OJ000251_22.0403.C13.o3.ts	Method	TBLASTX:Soybean
Start	14839	End	15189
GI	none	Score	191
Exons	14839..15189		

Seq. No.	44933	Seq. ID	OJ000251_22.0403.C13
Gene No.	94829	Strand	-
Start	15832	End	16721
Name	OJ000251_22.0403.C13.o1.tw	Method	TBLASTX:Wheat
Start	15832	End	16240
GI	none	Score	607
Exons	15832..16239, 15849..16166, 15958..16188, 16142..16240		

Seq. No.	44933	Seq. ID	OJ000251_22.0403.C13
Gene No.	94829	Strand	
Start	15832	End	16721
Name	OJ000251_22.0403.C13.o2.tm	Method	TBLASTX:Maize
Start	15892	End	16107
GI	none	Score	304
Exons	15892..16107, 15894..16106		

Seq. No.	44933	Seq. ID	OJ000251_22.0403.C13
Gene No.	94829	Strand	
Start	15832	End	16721
Name	OJ000251_22.0403.C13.o1.tm	Method	TBLASTX:Maize
Start	16108	End	16568
GI	none	Score	438
Exons	16108..16452, 16108..16398, 16460..16567, 16461..16568		

Seq. No.	44933	Seq. ID	OJ000251_22.0403.C13
Gene No.	94829	Strand	
Start	15832	End	16721
Name	OJ000251_22.0403.C13.o2.ts	Method	TBLASTX:Soybean
Start	16255	End	16721
GI	none	Score	162
Exons	16255..16452, 16290..16379, 16461..16535, 16536..16721		

Seq. No.	44933	Seq. ID	OJ000251_22.0403.C13
Gene No.	94829	Strand	
Start	15832	End	16721
Name	OJ000251_22.0403.C13.o3.tw	Method	TBLASTX:Wheat
Start	16258	End	16637
GI	none	Score	143
Exons	16258..16452, 16312..16401, 16536..16637		

Seq. No.	44933	Seq. ID	OJ000251_22.0403.C13
Gene No.	94830	Strand	
Start	16874	End	17276
Name	OJ000251_22.0403.C13.o1.ts	Method	TBLASTX:Soybean
Start	16874	End	17276
GI	none	Score	193
Exons	16874..17008, 16875..17018, 16875..17012, 17048..17134, 17049..17276, 17174..17275		

Seq. No.	44933	Seq. ID	OJ000251_22.0403.C13
Gene No.	94830	Strand	
Start	16874	End	17276
Name	OJ000251_22.0403.C13.o2.tw	Method	TBLASTX:Wheat
Start	16920	End	17276
GI	none	Score	89
Exons	16920..17009, 17063..17137, 17064..17276, 17168..17269		

Seq. No.	44934	Seq. ID	OJ000251_22.0403.C14
Gene No.	94831	Strand	+
Start	1	End	1404
Name	OJ000251_22.0403.C14.o1.np	Method	AAT/NAP
Start	1	End	1380
GI	7228457	Score	468
Exons	1..1380		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type		

retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]

Seq. No.	44934	Seq. ID	OJ000251_22.0403.C14
Gene No.	94831	Strand	+
Start	1	End	1404
Name	OJ000251_22.0403.C14.o1.tm	Method	TBLASTX:Maize
Start	380	End	778
GI	none	Score	82
Exons	380..559, 554..778		

Seq. No.	44934	Seq. ID	OJ000251_22.0403.C14
Gene No.	94831	Strand	+
Start	1	End	1404
Name	OJ000251_22.0403.C14.o2.ts	Method	TBLASTX:Soybean
Start	404	End	799
GI	none	Score	242
Exons	404..799, 479..619, 505..699		

Seq. No.	44934	Seq. ID	OJ000251_22.0403.C14
Gene No.	94831	Strand	+
Start	1	End	1404
Name	OJ000251_22.0403.C14.o1.tw	Method	TBLASTX:Wheat
Start	949	End	1365
GI	none	Score	87
Exons	949..1089, 1141..1365		

Seq. No.	44934	Seq. ID	OJ000251_22.0403.C14
Gene No.	94831	Strand	+
Start	1	End	1404
Name	OJ000251_22.0403.C14.o1.ts	Method	TBLASTX:Soybean
Start	1141	End	1386
GI	none	Score	247
Exons	1141..1386, 1185..1271, 1347..1382		

Seq. No.	44934	Seq. ID	OJ000251_22.0403.C14
Gene No.	94831	Strand	+
Start	1	End	1404
Name	OJ000251_22.0403.C14.o2.tm	Method	TBLASTX:Maize
Start	1159	End	1404
GI	none	Score	97
Exons	1159..1236, 1222..1290, 1288..1398, 1306..1404		

Seq. No.	44935	Seq. ID	OJ000251_22.0403.C15
Gene No.	94832	Strand	+
Start	449	End	745
Name	OJ000251_22.0403.C15.o1.gs	Method	GENSCAN
Start	449	End	745
GI	none	Score	.98
Exons	449..745		

Seq. No.	44936	Seq. ID	OJ000251_22.0403.C16
Gene No.	94833	Strand	+
Start	98	End	1261
Name	OJ000251_22.0403.C16.o1.gs	Method	GENSCAN
Start	98	End	1200
GI	none	Score	.62



Exons 98..161, 801..838, 936..1039, 1152..1200

Seq. No.	44936	Seq. ID	OJ000251_22.0403.C16
Gene No.	94833	Strand	+
Start	98	End	1261
Name	OJ000251_22.0403.C16.ol.tm	Method	TBLASTX:Maize
Start	785	End	1261
GI	none	Score	51
Exons	785..814, 790..819, 915..1040, 935..1075, 1000..1041, 1148..1225, 1148..1222, 1149..1223, 1150..1227, 1232..1261		

Seq. No.	44936	Seq. ID	OJ000251_22.0403.C16
Gene No.	94833	Strand	+
Start	98	End	1261
Name	OJ000251_22.0403.C16.ol.gp	Method	AAT/GAP
Start	790	End	1261
GI	723_1.R1084	Score	429
Exons	790..838, 936..1039, 1152..1261		
GI Descrip.	'576771/gb U16256 OSU16256 0.0e+00 Oryza sativa cone SR1 sucrose-regulated mRNA, 3''-end sequence'		

Seq. No.	44936	Seq. ID	OJ000251_22.0403.C16
Gene No.	94833	Strand	+
Start	98	End	1261
Name	OJ000251_22.0403.C16.ol.tw	Method	TBLASTX:Wheat
Start	927	End	1261
GI	none	Score	180
Exons	927..1040, 935..1075, 936..1040, 1000..1041, 1148..1198, 1149..1199, 1149..1196, 1150..1212, 1160..1186, 1231..1257, 1232..1261, 1232..1261		

Seq. No.	44936	Seq. ID	OJ000251_22.0403.C16
Gene No.	94833	Strand	+
Start	98	End	1261
Name	OJ000251_22.0403.C16.ol.np	Method	AAT/NAP
Start	933	End	1197
GI	1710551	Score	246
Exons	933..1039, 1152..1197		
GI Descrip.	60S RIBOSOMAL PROTEIN L39 gi 1177369 emb CAA64728.1  (X95458) ribosomal protein L39 [Zea mays]		

Seq. No.	44936	Seq. ID	OJ000251_22.0403.C16
Gene No.	94833	Strand	+
Start	98	End	1261
Name	OJ000251_22.0403.C16.ol.tc	Method	TBLASTX:Cress
Start	935	End	1200
GI	none	Score	167
Exons	935..1042, 936..1040, 1149..1196, 1150..1200		

Seq. No.	44936	Seq. ID	OJ000251_22.0403.C16
Gene No.	94833	Strand	+
Start	98	End	1261
Name	OJ000251_22.0403.C16.ol.ts	Method	TBLASTX:Soybean
Start	935	End	1201
GI	none	Score	189
Exons	935..1075, 936..1040, 1129..1191, 1149..1196, 1150..1200, 1163..1201		

Seq. No.	44937	Seq. ID	OJ000251_22.0403.C27
Gene No.	94834	Strand	-
Start	1129	End	1622
Name	OJ000251_22.0403.C27.o1.gp	Method	AAT/GAP
Start	1129	End	1622
GI	576771	Score	804
Exons	1129..1339, 1366..1622		
GI Descrip.	576771/gb U16256 OSU16256 0.0e+00 Oryza sativa cone SR1 sucrose-regulated mRNA, 3'-end sequence		

Seq. No.	44938	Seq. ID	OJ000251_22.0403.C30
Gene No.	94835	Strand	-
Start	1	End	716
Name	OJ000251_22.0403.C30.o1.np	Method	AAT/NAP
Start	1	End	429
GI	5902447	Score	527
Exons	1..429		
GI Descrip.	(AB030283) orf4 [Oryza sativa]		

Seq. No.	44938	Seq. ID	OJ000251_22.0403.C30
Gene No.	94835	Strand	-
Start	1	End	716
Name	OJ000251_22.0403.C30.o1.gs	Method	GENSCAN
Start	125	End	629
GI	none	Score	.5
Exons	125..330, 369..441, 528..629		

Seq. No.	44938	Seq. ID	OJ000251_22.0403.C30
Gene No.	94835	Strand	-
Start	1	End	716
Name	OJ000251_22.0403.C30.o2.np	Method	AAT/NAP
Start	519	End	716
GI	5902448	Score	334
Exons	519..716		
GI Descrip.	(AB030283) orf3 [Oryza sativa]		

Seq. No.	44939	Seq. ID	OJ000251_22.0403.C35
Gene No.	94836	Strand	+
Start	386	End	1633
Name	OJ000251_22.0403.C35.o1.gs	Method	GENSCAN
Start	386	End	1633
GI	none	Score	.67
Exons	386..410, 1398..1633		

Seq. No.	44940	Seq. ID	OJ000251_22.0403.C42
Gene No.	94837	Strand	+
Start	253	End	632
Name	OJ000251_22.0403.C42.o1.gs	Method	GENSCAN
Start	253	End	632
GI	none	Score	.73
Exons	253..466, 550..632		

Seq. No.	44941	Seq. ID	OJ000251_22.0403.C44
Gene No.	94838	Strand	-
Start	1	End	650
Name	OJ000251_22.0403.C44.o1.np	Method	AAT/NAP

Start	1	End	650
GI	2498930	Score	762
Exons	1..419, 587..650		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi 1203794 (U18774) Sog [Drosophila melanogaster]		

Seq. No.	44941	Seq. ID	OJ000251_22.0403.C44
Gene No.	94838	Strand	-
Start	1	End	650
Name	OJ000251_22.0403.C44.o1.gs	Method	GENSCAN
Start	117	End	646
GI	none	Score	.47
Exons	117..419, 587..646		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94839	Strand	+
Start	580	End	2338
Name	OJ000301_17.0410.C2.o1.gs	Method	GENSCAN
Start	580	End	2338
GI	none	Score	.88
Exons	580..652, 2265..2338		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94840	Strand	+
Start	4734	End	5740
Name	OJ000301_17.0410.C2.o3.gs	Method	GENSCAN
Start	4734	End	5740
GI	none	Score	.45
Exons	4734..5552, 5639..5740		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94841	Strand	+
Start	8376	End	14752
Name	OJ000301_17.0410.C2.o2.np	Method	AAT/NAP
Start	8019	End	11186
GI	7228442	Score	2862
Exons	8019..10665, 11005..11186		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94841	Strand	+
Start	8376	End	14752
Name	OJ000301_17.0410.C2.o4.gs	Method	GENSCAN
Start	8376	End	14752
GI	none	Score	.64
Exons	8376..9470, 9618..10155, 10426..10680, 11095..11211, 11324..11413, 11605..11825, 11918..12112, 12135..12173, 12312..12391, 12440..12447, 12486..12784, 13520..13840, 14618..14752		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94841	Strand	+
Start	8376	End	14752
Name	OJ000301_17.0410.C2.o4.np	Method	AAT/NAP
Start	8865	End	14710

GI 7228438 Score 1706  
 Exons 8865..10128, 10298..10762, 11277..11825, 11918..12068,  
 13419..13846, 14650..14710  
 GI Descrip. (AP001366) EST C28952(C62945) corresponds to a region of the  
 predicted gene.; Similar to maize transposon MuDR mudrA protein  
 isolog (AC003981) [Oryza sativa]

Seq. No. 44942 Seq. ID OJ000301\_17.0410.C2  
 Gene No. 94841 Strand +  
 Start 8376 End 14752  
 Name OJ000301\_17.0410.C2.o3.np Method AAT/NAP  
 Start 9009 End 14385  
 GI 6815062 Score 601  
 Exons 9009..9540, 9568..9706, 9824..10583, 10715..10972, 11403..11573,  
 14354..14385  
 GI Descrip. (AP001080) Similar to Arabidopsis thaliana chromosome II BAC  
 F16P2 genomic sequence;mudrA like protein (AC004561) [Oryza  
 sativa]

Seq. No. 44942 Seq. ID OJ000301\_17.0410.C2  
 Gene No. 94841 Strand +  
 Start 8376 End 14752  
 Name OJ000301\_17.0410.C2.o5.np Method AAT/NAP  
 Start 9052 End 13840  
 GI 7228438 Score 1454  
 Exons 9052..10128, 10298..10762, 11277..11825, 11918..12068,  
 13419..13840  
 GI Descrip. (AP001366) EST C28952(C62945) corresponds to a region of the  
 predicted gene.; Similar to maize transposon MuDR mudrA protein  
 isolog (AC003981) [Oryza sativa]

Seq. No. 44942 Seq. ID OJ000301\_17.0410.C2  
 Gene No. 94841 Strand +  
 Start 8376 End 14752  
 Name OJ000301\_17.0410.C2.o1.gp Method AAT/GAP  
 Start 11363 End 12502  
 GI LIB3433-020-P1-K1-A6 Score 750  
 Exons 11363..11405, 12118..12502  
 GI Descrip. '5670155/gb|AF161269.1|AF161269 2.0e-35 Oryza sativa subsp.  
 japonica BAC clone 34K24, complete sequence'

Seq. No. 44942 Seq. ID OJ000301\_17.0410.C2  
 Gene No. 94842 Strand +  
 Start 14941 End 18620  
 Name OJ000301\_17.0410.C2.o5.gs Method GENSCAN  
 Start 14941 End 18620  
 GI none Score .82  
 Exons 14941..15099, 15193..15245, 15354..15420, 15520..15575,  
 15878..15930, 16075..16382, 16572..16660, 17269..17359,  
 17454..17549, 17643..17768, 17847..18104, 18339..18620

Seq. No. 44942 Seq. ID OJ000301\_17.0410.C2  
 Gene No. 94842 Strand +  
 Start 14941 End 18620  
 Name OJ000301\_17.0410.C2.o6.np Method AAT/NAP  
 Start 14941 End 18617  
 GI 6560748 Score 633

Exons 14941..15159, 15352..15420, 15933..16085, 16572..16660,  
17269..17413, 17454..17543, 17643..17768, 17847..18104,  
18339..18617  
GI Descrip. (AC010155) F3M18.1 [Arabidopsis thaliana]  
gi|6691212|gb|AAF24550.1|AC007508\_13 (AC007508) F1K23.17  
[Arabidopsis thaliana]

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94843	Strand	+
Start	19616	End	21636
Name	OJ000301_17.0410.C2.o6.gs	Method	GENSCAN
Start	19616	End	21636
GI	none	Score	.88
Exons	19616..19832, 19875..20104, 20755..20835, 21058..21222, 21265..21414, 21532..21636		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94843	Strand	+
Start	19616	End	21636
Name	OJ000301_17.0410.C2.o2.gp	Method	AAT/GAP
Start	19625	End	21089
GI	LIB3432-046-P1-K1-B4	Score	849
Exons	19625..19781, 19875..20104, 20755..20835, 21058..21089		
GI Descrip.	'4646202/gb AAD26875.1 AC007230_9 5.0e-39 (AC007230) ESTs gb_H76289 and gb_H76537 come from this gene. [Arabidopsis thaliana]'		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94843	Strand	+
Start	19616	End	21636
Name	OJ000301_17.0410.C2.o7.np	Method	AAT/NAP
Start	19892	End	21426
GI	4646202	Score	611
Exons	19892..20104, 20755..20835, 21058..21426		
GI Descrip.	(AC007230) ESTs gb H76289 and gb H76537 come from this gene. [Arabidopsis thaliana]		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94844	Strand	+
Start	26829	End	28877
Name	OJ000301_17.0410.C2.o8.gs	Method	GENSCAN
Start	26829	End	28877
GI	none	Score	.45
Exons	26829..26874, 27590..27678, 28752..28877		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94845	Strand	+
Start	31502	End	37660
Name	OJ000301_17.0410.C2.o9.gs	Method	GENSCAN
Start	31502	End	37363
GI	none	Score	.41
Exons	31502..31793, 32424..32485, 32516..33032, 36455..36812, 37008..37107, 37229..37363		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94845	Strand	+
Start	31502	End	37660

Name	OJ000301_17.0410.C2.o3.gp	Method	AAT/GAP
Start	35061	End	35147
GI	5867_1.R1084	Score	108
Exons	35061..35147		
GI Descrip.	'464986/sp P35132 UBC9_ARATH 5.0e-58 UBIQUITIN-CONJUGATING ENZYME E2-17 KD 9 (UBIQUITIN-PROTEIN LIGASE 9) (UBIQUITIN CARRIER PROTEIN 9) (UBCAT4B) >gi_421857_pir_S32674 ubiquitin--protein ligase (EC 6.3.2.19) UBC9 - Arabidopsis thaliana >gi_297884_emb_CAA78714_ (Z14990) ubiquitin conjugating enzyme homolog [Arabidopsis thaliana] >gi_349211 (L00639) ubiquitin conjugating enzyme [Arabidopsis']		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94845	Strand	+
Start	31502	End	37660
Name	OJ000301_17.0410.C2.o4.gp	Method	AAT/GAP
Start	36348	End	37660
GI	804_1.R1084	Score	1866
Exons	36348..36812, 37008..37107, 37229..37660		
GI Descrip.	'2570517 7.0e-47 (AF022741) thioredoxin F isoform [Oryza sativa]'		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94845	Strand	+
Start	31502	End	37660
Name	OJ000301_17.0410.C2.o9.np	Method	AAT/NAP
Start	36484	End	37278
GI	7489485	Score	688
Exons	36484..36812, 37008..37107, 37229..37278		
GI Descrip.	hypothetical protein - rice gi 2570517 gb AAB82144.1  (AF022741) thioredoxin F isoform [Oryza sativa]		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94846	Strand	+
Start	42354	End	43340
Name	OJ000301_17.0410.C2.o11.gs	Method	GENSCAN
Start	42354	End	43340
GI	none	Score	.73
Exons	42354..42647, 43119..43340		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94847	Strand	+
Start	43308	End	43540
Name	OJ000301_17.0410.C2.o5.gp	Method	AAT/GAP
Start	43308	End	43540
GI	99156_1.R1084	Score	439
Exons	43308..43540		
GI Descrip.	'2213590 7.0e-14 (AC000348) T7N9.10 [Arabidopsis thaliana]'		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94848	Strand	+
Start	46234	End	46478
Name	OJ000301_17.0410.C2.o13.gs	Method	GENSCAN
Start	46234	End	46478
GI	none	Score	.76
Exons	46234..46316, 46370..46478		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94849	Strand	+
Start	49209	End	49391
Name	OJ000301_17.0410.C2.o15.gs	Method	GENSCAN
Start	49209	End	49391
GI	none	Score	.83
Exons	49209..49391		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94850	Strand	+
Start	52335	End	55070
Name	OJ000301_17.0410.C2.o16.gs	Method	GENSCAN
Start	52335	End	55024
GI	none	Score	.77
Exons	52335..52413, 53926..54045, 54577..55024		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94850	Strand	+
Start	52335	End	55070
Name	OJ000301_17.0410.C2.o11.np	Method	AAT/NAP
Start	52656	End	55070
GI	2213590	Score	572
Exons	52656..52676, 53934..54143, 54444..55070		
GI Descrip.	(AC000348) T7N9.10 [Arabidopsis thaliana]		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94851	Strand	-
Start	414	End	1785
Name	OJ000301_17.0410.C2.o1.np	Method	AAT/NAP
Start	414	End	1785
GI	6907088	Score	998
Exons	414..784, 1283..1520, 1648..1785		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94852	Strand	-
Start	3312	End	4049
Name	OJ000301_17.0410.C2.o2.gs	Method	GENSCAN
Start	3312	End	4049
GI	none	Score	.9
Exons	3312..4049		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94853	Strand	-
Start	21938	End	25194
Name	OJ000301_17.0410.C2.o8.np	Method	AAT/NAP
Start	21938	End	23156
GI	4678202	Score	52
Exons	21938..21973, 23004..23156		
GI Descrip.	(AC007134) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94853	Strand	-
Start	21938	End	25194
Name	OJ000301_17.0410.C2.o7.gs	Method	GENSCAN
Start	22632	End	25194
GI	none	Score	.74

Exons 22632..23167, 24948..25194

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94854	Strand	-
Start	38722	End	40323
Name	OJ000301_17.0410.C2.o10.gs	Method	GENSCAN
Start	38722	End	40323
GI	none	Score	.87
Exons	38722..40323		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94854	Strand	-
Start	38722	End	40323
Name	OJ000301_17.0410.C2.o10.np	Method	AAT/NAP
Start	38763	End	39963
GI	4263522	Score	724
Exons	38763..39963		
GI Descrip.	(AC004044) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94855	Strand	-
Start	43627	End	44201
Name	OJ000301_17.0410.C2.o12.gs	Method	GENSCAN
Start	43627	End	44201
GI	none	Score	.92
Exons	43627..43674, 43764..44201		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94856	Strand	-
Start	47471	End	48912
Name	OJ000301_17.0410.C2.o14.gs	Method	GENSCAN
Start	47471	End	48912
GI	none	Score	.49
Exons	47471..47640, 48095..48306, 48419..48548, 48816..48912		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94857	Strand	-
Start	53842	End	55025
Name	OJ000301_17.0410.C2.o4.tm	Method	TBLASTX:Maize
Start	9054	End	9532
GI	none	Score	369
Exons	9054..9521, 9059..9532		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94857	Strand	-
Start	53842	End	55025
Name	OJ000301_17.0410.C2.o1.tw	Method	TBLASTX:Wheat
Start	9348	End	9725
GI	none	Score	180
Exons	9348..9497, 9350..9502, 9351..9527, 9552..9725, 9561..9608, 9574..9714		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94857	Strand	-
Start	53842	End	55025
Name	OJ000301_17.0410.C2.o8.tm	Method	TBLASTX:Maize
Start	16572	End	17870



GI	none	Score	112
Exons	16572..16670, 16575..16667, 17249..17359, 17267..17359, 17447..17545, 17451..17549, 17451..17546, 17634..17768, 17640..17786, 17645..17770, 17647..17778, 17844..17870		
Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94857	Strand	-
Start	53842	End	55025
Name	OJ000301_17.0410.C2.o2.ts	Method	TBLASTX:Soybean
Start	17475	End	18587
GI	none	Score	71
Exons	17475..17552, 17642..17779, 17646..17780, 17873..18103, 17874..18104, 18005..18106, 18335..18544, 18336..18587		
Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94857	Strand	-
Start	53842	End	55025
Name	OJ000301_17.0410.C2.o7.tm	Method	TBLASTX:Maize
Start	18425	End	18624
GI	none	Score	313
Exons	18425..18559, 18426..18620, 18430..18624, 18430..18618		
Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94857	Strand	-
Start	53842	End	55025
Name	OJ000301_17.0410.C2.o9.tm	Method	TBLASTX:Maize
Start	19554	End	20074
GI	none	Score	79
Exons	19554..19619, 19555..19620, 19565..19618, 19748..19789, 19907..20029, 19922..20074		
Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94857	Strand	-
Start	53842	End	55025
Name	OJ000301_17.0410.C2.o4.ts	Method	TBLASTX:Soybean
Start	19931	End	21738
GI	none	Score	232
Exons	19931..20104, 19990..20106, 20749..20835, 20763..20834, 21057..21125, 21058..21132, 21142..21369, 21150..21332, 21244..21414, 21375..21413, 21535..21636, 21564..21635, 21715..21738		
Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94857	Strand	-
Start	53842	End	55025
Name	OJ000301_17.0410.C2.o5.tc	Method	TBLASTX:Cress
Start	19931	End	20835
GI	none	Score	243
Exons	19931..20107, 19990..20106, 20749..20835, 20763..20834		
Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94857	Strand	-
Start	53842	End	55025
Name	OJ000301_17.0410.C2.o1.tm	Method	TBLASTX:Maize
Start	20769	End	21563
GI	none	Score	87
Exons	20769..20834, 20769..20834, 20770..20835, 20771..20839,		

21036..21344, 21054..21329, 21058..21348, 21328..21414,  
21375..21410, 21517..21561, 21525..21563

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94857	Strand	-
Start	53842	End	55025
Name	OJ000301_17.0410.C2.o6.tm	Method	TBLASTX:Maize
Start	36598	End	37363
GI	none	Score	73
Exons	36598..36672, 36609..36671, 36739..36813, 36741..36815, 36990..37058, 36995..37105, 37006..37107, 37009..37107, 37220..37363, 37234..37362		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94857	Strand	-
Start	53842	End	55025
Name	OJ000301_17.0410.C2.o4.tc	Method	TBLASTX:Cress
Start	36739	End	37360
GI	none	Score	121
Exons	36739..36813, 36741..36815, 37009..37107, 37220..37360, 37232..37342, 37234..37356		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94857	Strand	-
Start	53842	End	55025
Name	OJ000301_17.0410.C2.o5.ts	Method	TBLASTX:Soybean
Start	36739	End	37363
GI	none	Score	125
Exons	36739..36813, 36741..36815, 37008..37058, 37009..37107, 37027..37089, 37220..37363, 37231..37359		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94857	Strand	-
Start	53842	End	55025
Name	OJ000301_17.0410.C2.o1.ts	Method	TBLASTX:Soybean
Start	38752	End	39198
GI	none	Score	136
Exons	38752..39198, 38765..39184		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94857	Strand	-
Start	53842	End	55025
Name	OJ000301_17.0410.C2.o2.tm	Method	TBLASTX:Maize
Start	38764	End	39963
GI	none	Score	162
Exons	38764..39510, 38906..39202, 39220..39606, 39361..39525, 39454..39687, 39490..39684, 39511..39684, 39607..39777, 39611..39790, 39664..39780, 39760..39963, 39802..39963, 39850..39963, 39850..39948		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94857	Strand	-
Start	53842	End	55025
Name	OJ000301_17.0410.C2.o6.tc	Method	TBLASTX:Cress
Start	38767	End	39084
GI	none	Score	137
Exons	38767..39081, 38768..39073, 38809..39084		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94857	Strand	-
Start	53842	End	55025
Name	OJ000301_17.0410.C2.o2.tw	Method	TBLASTX:Wheat
Start	39076	End	39867
GI	none	Score	52
Exons	39076..39552, 39314..39382, 39430..39525, 39463..39684, 39536..39658, 39667..39867		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94857	Strand	-
Start	53842	End	55025
Name	OJ000301_17.0410.C2.o1.tc	Method	TBLASTX:Cress
Start	39097	End	39963
GI	none	Score	70
Exons	39097..39228, 39098..39208, 39208..39777, 39352..39639, 39445..39522, 39529..39870, 39697..39963, 39706..39777		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94857	Strand	-
Start	53842	End	55025
Name	OJ000301_17.0410.C2.o7.ts	Method	TBLASTX:Soybean
Start	39277	End	39846
GI	none	Score	74
Exons	39277..39660, 39487..39630, 39533..39658, 39580..39702, 39616..39747, 39617..39748, 39709..39846		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94857	Strand	-
Start	53842	End	55025
Name	OJ000301_17.0410.C2.o5.tm	Method	TBLASTX:Maize
Start	43806	End	44132
GI	none	Score	82
Exons	43806..43877, 43807..43878, 43872..44132, 43873..44106		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94857	Strand	-
Start	53842	End	55025
Name	OJ000301_17.0410.C2.o3.ts	Method	TBLASTX:Soybean
Start	43807	End	44132
GI	none	Score	186
Exons	43807..44022, 43809..44132, 44077..44106		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94857	Strand	-
Start	53842	End	55025
Name	OJ000301_17.0410.C2.o2.tc	Method	TBLASTX:Cress
Start	43809	End	44129
GI	none	Score	138
Exons	43809..44129, 43831..44025		

Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94857	Strand	-
Start	53842	End	55025
Name	OJ000301_17.0410.C2.o6.gp	Method	AAT/GAP
Start	53842	End	54187

GI	568796	Score	628
Exons	53842..54187		
GI Descrip.	2213590 7.0e-14 (AC000348) T7N9.10 [Arabidopsis thaliana]		
Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94857	Strand	-
Start	53842	End	55025
Name	OJ000301_17.0410.C2.o3.tm	Method	TBLASTX:Maize
Start	53922	End	55025
GI	none	Score	182
Exons	53922..54143, 53930..54214, 54516..54929, 54548..54640, 54675..54806, 54689..54910, 54963..55025		
Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94857	Strand	-
Start	53842	End	55025
Name	OJ000301_17.0410.C2.o8.ts	Method	TBLASTX:Soybean
Start	53922	End	54668
GI	none	Score	210
Exons	53922..54143, 53927..53980, 54017..54139, 54444..54668		
Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94857	Strand	-
Start	53842	End	55025
Name	OJ000301_17.0410.C2.o3.tc	Method	TBLASTX:Cress
Start	54528	End	54893
GI	none	Score	282
Exons	54528..54893, 54689..54862		
Seq. No.	44942	Seq. ID	OJ000301_17.0410.C2
Gene No.	94857	Strand	-
Start	53842	End	55025
Name	OJ000301_17.0410.C2.o6.ts	Method	TBLASTX:Soybean
Start	54669	End	54929
GI	none	Score	248
Exons	54669..54929, 54689..54928		
Seq. No.	44943	Seq. ID	OJ000301_17.0410.C3
Gene No.	94858	Strand	+
Start	1	End	659
Name	OJ000301_17.0410.C3.o1.np	Method	AAT/NAP
Start	1	End	638
GI	6358806	Score	487
Exons	1..638		
GI Descrip.	(AC010675) putative peptide transporter [Arabidopsis thaliana]		
Seq. No.	44943	Seq. ID	OJ000301_17.0410.C3
Gene No.	94858	Strand	+
Start	1	End	659
Name	OJ000301_17.0410.C3.o1.gs	Method	GENSCAN
Start	159	End	659
GI	none	Score	.61
Exons	159..659		
Seq. No.	44943	Seq. ID	OJ000301_17.0410.C3
Gene No.	94859	Strand	-
Start	1317	End	5274

Name	OJ000301_17.0410.C3.o1.ts	Method	TBLASTX:Soybean
Start	6	End	515
GI	none	Score	158
Exons	6..212, 32..205, 209..484, 213..515		
Seq. No.	44943	Seq. ID	OJ000301_17.0410.C3
Gene No.	94859	Strand	-
Start	1317	End	5274
Name	OJ000301_17.0410.C3.o2.tm	Method	TBLASTX:Maize
Start	6	End	587
GI	none	Score	181
Exons	6..209, 29..181, 198..425, 212..409, 426..587		
Seq. No.	44943	Seq. ID	OJ000301_17.0410.C3
Gene No.	94859	Strand	-
Start	1317	End	5274
Name	OJ000301_17.0410.C3.o1.tc	Method	TBLASTX:Cress
Start	215	End	566
GI	none	Score	354
Exons	215..400, 216..566		
Seq. No.	44943	Seq. ID	OJ000301_17.0410.C3
Gene No.	94859	Strand	-
Start	1317	End	5274
Name	OJ000301_17.0410.C3.o2.tw	Method	TBLASTX:Wheat
Start	234	End	563
GI	none	Score	227
Exons	234..563, 248..490		
Seq. No.	44943	Seq. ID	OJ000301_17.0410.C3
Gene No.	94859	Strand	-
Start	1317	End	5274
Name	OJ000301_17.0410.C3.o2.gs	Method	GENSCAN
Start	1317	End	1642
GI	none	Score	.97
Exons	1317..1442, 1544..1642		
Seq. No.	44943	Seq. ID	OJ000301_17.0410.C3
Gene No.	94859	Strand	-
Start	1317	End	5274
Name	OJ000301_17.0410.C3.o2.np	Method	AAT/NAP
Start	1431	End	5267
GI	7363286	Score	731
Exons	1431..1470, 2928..4628, 5132..5267		
GI Descrip.	(AP001552) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F4I10; vegetative storage protein. (AL035525) [Oryza sativa]		
Seq. No.	44943	Seq. ID	OJ000301_17.0410.C3
Gene No.	94859	Strand	-
Start	1317	End	5274
Name	OJ000301_17.0410.C3.o3.tm	Method	TBLASTX:Maize
Start	1547	End	4737
GI	none	Score	164
Exons	1547..1654, 1548..1655, 4629..4736, 4629..4736, 4636..4737		
Seq. No.	44943	Seq. ID	OJ000301_17.0410.C3

Gene No.	94859	Strand	-
Start	1317	End	5274
Name	OJ000301_17.0410.C3.o3.gs	Method	GENSCAN
Start	2907	End	5274
GI	none	Score	.82
Exons	2907..3532, 4385..4552, 4895..4963, 5088..5274		

Seq. No.	44943	Seq. ID	OJ000301_17.0410.C3
Gene No.	94859	Strand	-
Start	1317	End	5274
Name	OJ000301_17.0410.C3.o1.tm	Method	TBLASTX:Maize
Start	2932	End	4628
GI	none	Score	36
Exons	2932..3144, 2940..3857, 3175..3342, 3351..3668, 3418..3663, 3672..3983, 3681..3983, 3682..4077, 3748..3978, 3900..4073, 3918..4256, 3927..4628, 4302..4592		

Seq. No.	44943	Seq. ID	OJ000301_17.0410.C3
Gene No.	94859	Strand	-
Start	1317	End	5274
Name	OJ000301_17.0410.C3.o2.tc	Method	TBLASTX:Cress
Start	3182	End	4712
GI	none	Score	87
Exons	3182..3226, 3261..3386, 3375..3659, 3387..3548, 3403..3696, 3448..3546, 3633..4103, 3690..3818, 3693..3821, 3693..3974, 3978..4592, 3996..4277, 4224..4712, 4302..4463, 4368..4538		

Seq. No.	44943	Seq. ID	OJ000301_17.0410.C3
Gene No.	94859	Strand	-
Start	1317	End	5274
Name	OJ000301_17.0410.C3.o2.ts	Method	TBLASTX:Soybean
Start	3195	End	4091
GI	none	Score	75
Exons	3195..3482, 3927..4091		

Seq. No.	44943	Seq. ID	OJ000301_17.0410.C3
Gene No.	94859	Strand	-
Start	1317	End	5274
Name	OJ000301_17.0410.C3.o1.tw	Method	TBLASTX:Wheat
Start	3240	End	4628
GI	none	Score	108
Exons	3240..3668, 3241..3693, 3294..3419, 3690..3851, 3891..4010, 3933..4277, 4302..4628, 4312..4608		

Seq. No.	44944	Seq. ID	OJ000301_17.0410.C4
Gene No.	94860	Strand	+
Start	1880	End	2167
Name	OJ000301_17.0410.C4.o1.gp	Method	AAT/GAP
Start	1880	End	2167
GI	45653_1.R1084	Score	576
Exons	1880..2167		
GI Descrip.	'2781363 2.0e-20 (AC003113) F2401.19 [Arabidopsis thaliana]'		

Seq. No.	44944	Seq. ID	OJ000301_17.0410.C4
Gene No.	94861	Strand	-
Start	2120	End	3343
Name	OJ000301_17.0410.C4.o1.tm	Method	TBLASTX:Maize

Start	1991	End	3343
GI	none	Score	115
Exons	1991..2023, 2111..2203, 2112..2201, 2113..2202, 2178..2219, 2278..2331, 2289..2423, 2290..2409, 2291..2410, 2447..2488, 2745..2984, 2750..2983, 2856..2984, 3096..3167, 3101..3169, 3255..3323, 3255..3317, 3257..3343		

Seq. No.	44944	Seq. ID	OJ000301_17.0410.C4
Gene No.	94861	Strand	-
Start	2120	End	3343
Name	OJ000301_17.0410.C4.o2.gs	Method	GENSCAN
Start	2120	End	3289
GI	none	Score	.8
Exons	2120..2200, 2247..2413, 2764..2982, 3257..3289		

Seq. No.	44944	Seq. ID	OJ000301_17.0410.C4
Gene No.	94861	Strand	-
Start	2120	End	3343
Name	OJ000301_17.0410.C4.o1.np	Method	AAT/NAP
Start	2126	End	3343
GI	6648200	Score	517
Exons	2126..2200, 2289..2413, 2764..2982, 3100..3166, 3257..3343		
GI Descrip.	(AC013483) putative RHO GDP-dissociation inhibitor 1 [Arabidopsis thaliana]		

Seq. No.	44944	Seq. ID	OJ000301_17.0410.C4
Gene No.	94861	Strand	-
Start	2120	End	3343
Name	OJ000301_17.0410.C4.o1.tc	Method	TBLASTX:Cress
Start	2757	End	3169
GI	none	Score	101
Exons	2757..2861, 2759..2866, 2883..2984, 2903..2983, 3096..3167, 3101..3169		

Seq. No.	44944	Seq. ID	OJ000301_17.0410.C4
Gene No.	94861	Strand	-
Start	2120	End	3343
Name	OJ000301_17.0410.C4.o2.gp	Method	AAT/GAP
Start	2839	End	3343
GI	2427835	Score	502
Exons	2839..2982, 3100..3166, 3257..3343		
GI Descrip.	2781363 2.0e-20 (AC003113) F2401.19 [Arabidopsis thaliana]		

Seq. No.	44944	Seq. ID	OJ000301_17.0410.C4
Gene No.	94861	Strand	-
Start	2120	End	3343
Name	OJ000301_17.0410.C4.o1.ts	Method	TBLASTX:Soybean
Start	2885	End	3343
GI	none	Score	76
Exons	2885..2986, 2892..2975, 3101..3187, 3102..3167, 3251..3343, 3255..3317		

Seq. No.	44945	Seq. ID	OJ000301_17.0410.C5
Gene No.	94862	Strand	+
Start	672	End	2171
Name	OJ000301_17.0410.C5.o1.gs	Method	GENSCAN
Start	672	End	2156

GI	none	Score	1
Exons	672..2156		
Seq. No.	44945	Seq. ID	OJ000301_17.0410.C5
Gene No.	94862	Strand	+
Start	672	End	2171
Name	OJ000301_17.0410.C5.o1.np	Method	AAT/NAP
Start	678	End	2171
GI	4836924	Score	788
Exons	678..2171		
GI Descrip.	(AC007153) Hypothetical protein [Arabidopsis thaliana]		
Seq. No.	44945	Seq. ID	OJ000301_17.0410.C5
Gene No.	94863	Strand	-
Start	3012	End	3365
Name	OJ000301_17.0410.C5.o1.tc	Method	TBLASTX:Cress
Start	1071	End	1952
GI	none	Score	245
Exons	1071..1424, 1167..1355, 1172..1402, 1593..1631, 1665..1853, 1857..1952		
Seq. No.	44945	Seq. ID	OJ000301_17.0410.C5
Gene No.	94863	Strand	-
Start	3012	End	3365
Name	OJ000301_17.0410.C5.o1.tm	Method	TBLASTX:Maize
Start	1103	End	1502
GI	none	Score	260
Exons	1103..1465, 1104..1502, 1118..1501		
Seq. No.	44945	Seq. ID	OJ000301_17.0410.C5
Gene No.	94863	Strand	-
Start	3012	End	3365
Name	OJ000301_17.0410.C5.o2.tm	Method	TBLASTX:Maize
Start	1557	End	2054
GI	none	Score	354
Exons	1557..1826, 1557..1823, 1725..1937, 1742..1831, 1878..2054		
Seq. No.	44945	Seq. ID	OJ000301_17.0410.C5
Gene No.	94863	Strand	-
Start	3012	End	3365
Name	OJ000301_17.0410.C5.o1.ts	Method	TBLASTX:Soybean
Start	1566	End	2099
GI	none	Score	71
Exons	1566..1754, 1731..1880, 1884..2099, 1887..2093		
Seq. No.	44945	Seq. ID	OJ000301_17.0410.C5
Gene No.	94863	Strand	-
Start	3012	End	3365
Name	OJ000301_17.0410.C5.o2.gs	Method	GENSCAN
Start	3012	End	3365
GI	none	Score	.99
Exons	3012..3365		
Seq. No.	44946	Seq. ID	OJ000301_17.0410.C6
Gene No.	94864	Strand	+
Start	8598	End	8933
Name	OJ000301_17.0410.C6.o3.gs	Method	GENSCAN



Start 8598  
GI none  
Exons 8598..8933

End 8933  
Score .97

Seq. No. 44946  
Gene No. 94865  
Start 11502  
Name OJ000301\_17.0410.C6.o2.gp  
Start 11502  
GI none  
Exons 11502..12338

Seq. ID OJ000301\_17.0410.C6  
Strand +  
End 12338  
Method AAT/GAP  
End 12338  
Score 1591

Seq. No. 44946  
Gene No. 94866  
Start 24624  
Name OJ000301\_17.0410.C6.o7.gs  
Start 24624  
GI none  
Exons 24624..24800, 24886..25156, 25398..25517, 25618..25742, 25938..26120, 26236..26265, 26335..26538, 26562..26675, 26769..26861, 26942..27081, 27232..27302, 27385..27465, 28738..28943

Seq. ID OJ000301\_17.0410.C6  
Strand +  
End 28943  
Method GENSCAN  
End 28943  
Score .74

Seq. No. 44946  
Gene No. 94866  
Start 24624  
Name OJ000301\_17.0410.C6.o4.np  
Start 24650  
GI 3763916  
Exons 24650..24800, 24886..25156, 25398..25517, 25618..25754, 25926..26144, 26371..26538, 26622..26675, 26769..26861, 26942..27111, 27192..27304, 27528..27660

Seq. ID OJ000301\_17.0410.C6  
Strand +  
End 28943  
Method AAT/NAP  
End 27660  
Score 764

GI Descrip. (AC004450) unknown protein [Arabidopsis thaliana]

Seq. No. 44946  
Gene No. 94867  
Start 30147  
Name OJ000301\_17.0410.C6.o5.np  
Start 29268  
GI 2194119  
Exons 29268..29308, 30739..31037, 31984..32753

Seq. ID OJ000301\_17.0410.C6  
Strand +  
End 32942  
Method AAT/NAP  
End 32753  
Score 522

GI Descrip. (AC002062) No definition line found [Arabidopsis thaliana]

Seq. No. 44946  
Gene No. 94867  
Start 30147  
Name OJ000301\_17.0410.C6.o8.gs  
Start 30147  
GI none  
Exons 30147..30579, 30735..31012, 31971..32768

Seq. ID OJ000301\_17.0410.C6  
Strand +  
End 32942  
Method GENSCAN  
End 32768  
Score .91

Seq. No. 44946  
Gene No. 94867  
Start 30147  
Name OJ000301\_17.0410.C6.o5.gp  
Start 32279  
GI 12107\_1.R1084

Seq. ID OJ000301\_17.0410.C6  
Strand +  
End 32942  
Method AAT/GAP  
End 32942  
Score 1207

Exons 32279..32942  
 GI Descrip. '5123925/emb|CAB45513.1| 5.0e-57 (AL079350) putative protein [Arabidopsis thaliana]'

Seq. No. 44946 Seq. ID OJ000301\_17.0410.C6  
 Gene No. 94868 Strand -  
 Start 1 End 691  
 Name OJ000301\_17.0410.C6.o1.np Method AAT/NAP  
 Start 1 End 616  
 GI 7485403 Score 97  
 Exons 1..41, 443..616  
 GI Descrip. hypothetical protein F12C20.8 - Arabidopsis thaliana  
 gi|3426047|gb|AAC32246.1| (AC005168) putative MADS-box protein  
 [Arabidopsis thaliana]

Seq. No. 44946 Seq. ID OJ000301\_17.0410.C6  
 Gene No. 94868 Strand -  
 Start 1 End 691  
 Name OJ000301\_17.0410.C6.o1.gs Method GENSCAN  
 Start 71 End 691  
 GI none Score .6  
 Exons 71..691

Seq. No. 44946 Seq. ID OJ000301\_17.0410.C6  
 Gene No. 94869 Strand -  
 Start 1558 End 5028  
 Name OJ000301\_17.0410.C6.o2.gs Method GENSCAN  
 Start 1558 End 5028  
 GI none Score .89  
 Exons 1558..1750, 2200..2369, 2510..2689, 4924..5028

Seq. No. 44946 Seq. ID OJ000301\_17.0410.C6  
 Gene No. 94870 Strand -  
 Start 13173 End 13266  
 Name OJ000301\_17.0410.C6.o3.gp Method AAT/GAP  
 Start 13173 End 13266  
 GI LIB3477-003-P1-K1-E9 Score 126  
 Exons 13173..13266  
 GI Descrip. '2498586/sp|Q40638|MPO1\_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY  
 S 1 PRECURSOR (ORY S I) >gi\_1173557 (U31771) Ory s 1 [Oryza  
 sativa]'

Seq. No. 44946 Seq. ID OJ000301\_17.0410.C6  
 Gene No. 94871 Strand -  
 Start 14014 End 14381  
 Name OJ000301\_17.0410.C6.o4.gp Method AAT/GAP  
 Start 14014 End 14381  
 GI 59410\_1.R1084 Score 582  
 Exons 14014..14381  
 GI Descrip. '2499945/sp|Q42586|PYR5\_ARATH 3.0e-51 URIDINE 5''-MONOPHOSPHATE  
 SYNTHASE (UMP SYNTHASE) [INCLUDES: OROTATE  
 PHOSPHORIBOSYLTRANSFERASE (OPRTASE); OROTIDINE 5''-PHOSPHATE  
 DECARBOXYLASE (OMPDECASE)] >gi\_1076363\_pir\_S46440 orotate  
 phosphoribosyltransferase (EC 2.4.2.10) /  
 orotidine-5''-phosphate decarboxylase (EC 4.1.1.23) -  
 Arabidopsis thaliana >gi\_443818\_emb\_CAA50686\_ (X71842) pyrE-F  
 [Ara]

Seq. No.	44946	Seq. ID	OJ000301_17.0410.C6
Gene No.	94872	Strand	-
Start	18712	End	24348
Name	OJ000301_17.0410.C6.o7.tm	Method	TBLASTX:Maize
Start	2244	End	2692
GI	none	Score	91
Exons	2244..2297, 2343..2372, 2506..2562, 2510..2563, 2511..2564, 2535..2690, 2558..2692, 2615..2692		

Seq. No.	44946	Seq. ID	OJ000301_17.0410.C6
Gene No.	94872	Strand	-
Start	18712	End	24348
Name	OJ000301_17.0410.C6.o5.tc	Method	TBLASTX:Cress
Start	18017	End	18278
GI	none	Score	113
Exons	18017..18241, 18101..18241, 18102..18278		

Seq. No.	44946	Seq. ID	OJ000301_17.0410.C6
Gene No.	94872	Strand	-
Start	18712	End	24348
Name	OJ000301_17.0410.C6.o4.ts	Method	TBLASTX:Soybean
Start	18092	End	18275
GI	none	Score	255
Exons	18092..18250, 18099..18275		

Seq. No.	44946	Seq. ID	OJ000301_17.0410.C6
Gene No.	94872	Strand	-
Start	18712	End	24348
Name	OJ000301_17.0410.C6.o6.gs	Method	GENSCAN
Start	18712	End	22983
GI	none	Score	.49
Exons	18712..18776, 19305..19372, 21157..21283, 21606..22983		

Seq. No.	44946	Seq. ID	OJ000301_17.0410.C6
Gene No.	94872	Strand	-
Start	18712	End	24348
Name	OJ000301_17.0410.C6.o2.np	Method	AAT/NAP
Start	21486	End	24325
GI	4586036	Score	841
Exons	21486..22599, 22786..22973, 24283..24325		
GI Descrip.	(AC007109) unknown protein [Arabidopsis thaliana]		

Seq. No.	44946	Seq. ID	OJ000301_17.0410.C6
Gene No.	94872	Strand	-
Start	18712	End	24348
Name	OJ000301_17.0410.C6.o1.tm	Method	TBLASTX:Maize
Start	21513	End	21862
GI	none	Score	374
Exons	21513..21857, 21514..21861, 21515..21862		

Seq. No.	44946	Seq. ID	OJ000301_17.0410.C6
Gene No.	94872	Strand	-
Start	18712	End	24348
Name	OJ000301_17.0410.C6.o1.ts	Method	TBLASTX:Soybean
Start	21553	End	22077
GI	none	Score	352

Exons 21553..22077

Seq. No.	44946	Seq. ID	OJ000301_17.0410.C6
Gene No.	94872	Strand	-
Start	18712	End	24348
Name	OJ000301_17.0410.C6.o6.tc	Method	TBLASTX:Cress
Start	21577	End	22068
GI	none	Score	235
Exons	21577..22068		

Seq. No.	44946	Seq. ID	OJ000301_17.0410.C6
Gene No.	94872	Strand	-
Start	18712	End	24348
Name	OJ000301_17.0410.C6.o6.tm	Method	TBLASTX:Maize
Start	21868	End	23022
GI	none	Score	67
Exons	21868..22323, 21953..22075, 22375..22581, 22375..22563, 22375..22497, 22387..22560, 22399..22581, 22456..22626, 22492..22608, 22615..22752, 22633..22767, 22636..22749, 22666..22767, 22681..22761, 22777..23022, 22832..22975, 22870..22983		

Seq. No.	44946	Seq. ID	OJ000301_17.0410.C6
Gene No.	94872	Strand	-
Start	18712	End	24348
Name	OJ000301_17.0410.C6.o1.tw	Method	TBLASTX:Wheat
Start	21949	End	23010
GI	none	Score	117
Exons	21949..22422, 21950..22333, 22378..22572, 22618..22761, 22777..23010		

Seq. No.	44946	Seq. ID	OJ000301_17.0410.C6
Gene No.	94872	Strand	-
Start	18712	End	24348
Name	OJ000301_17.0410.C6.o1.tc	Method	TBLASTX:Cress
Start	22069	End	23013
GI	none	Score	109
Exons	22069..22623, 22087..22509, 22096..22317, 22105..22320, 22396..22575, 22399..22575, 22487..22624, 22581..22616, 22636..22767, 22639..22833, 22675..22767, 22777..23013, 22777..22959		

Seq. No.	44946	Seq. ID	OJ000301_17.0410.C6
Gene No.	94872	Strand	-
Start	18712	End	24348
Name	OJ000301_17.0410.C6.o7.ts	Method	TBLASTX:Soybean
Start	22093	End	22770
GI	none	Score	82
Exons	22093..22272, 22399..22614, 22399..22614, 22400..22615, 22486..22623, 22493..22624, 22636..22770, 22636..22770, 22639..22698, 22639..22710		

Seq. No.	44946	Seq. ID	OJ000301_17.0410.C6
Gene No.	94872	Strand	-
Start	18712	End	24348
Name	OJ000301_17.0410.C6.o3.np	Method	AAT/NAP
Start	23109	End	24348

GI 6016691 Score 55  
 Exons 23109..23256, 24327..24348  
 GI Descrip. (AC009991) unknown protein [Arabidopsis thaliana]

Seq. No. 44946 Seq. ID OJ000301\_17.0410.C6  
 Gene No. 94873 Strand  
 Start 24717 End 27479  
 Name OJ000301\_17.0410.C6.o6.ts Method TBLASTX:Soybean  
 Start 24717 End 25155  
 GI none Score 64  
 Exons 24717..24803, 24764..24802, 24885..25154, 24886..25155

Seq. No. 44946 Seq. ID OJ000301\_17.0410.C6  
 Gene No. 94873 Strand  
 Start 24717 End 27479  
 Name OJ000301\_17.0410.C6.o4.tm Method TBLASTX:Maize  
 Start 24885 End 27479  
 GI none Score 193  
 Exons 24885..25154, 24886..25164, 25397..25522, 25614..25745,  
 25920..26147, 26009..26113, 26371..26538, 26409..26525,  
 26609..26674, 26616..26708, 26616..26678, 26760..26861,  
 26761..26862, 26766..26867, 26768..26869, 26935..27084,  
 26936..27082, 27212..27304, 27426..27479

Seq. No. 44946 Seq. ID OJ000301\_17.0410.C6  
 Gene No. 94873 Strand  
 Start 24717 End 27479  
 Name OJ000301\_17.0410.C6.o3.tc Method TBLASTX:Cress  
 Start 25980 End 27467  
 GI none Score 89  
 Exons 25980..26147, 26371..26538, 26616..26678, 26760..26894,  
 26766..26867, 26972..27082, 26974..27081, 27212..27304,  
 27426..27467

Seq. No. 44946 Seq. ID OJ000301\_17.0410.C6  
 Gene No. 94873 Strand  
 Start 24717 End 27479  
 Name OJ000301\_17.0410.C6.o2.ts Method TBLASTX:Soybean  
 Start 26004 End 27304  
 GI none Score 80  
 Exons 26004..26147, 26371..26538, 26616..26678, 26760..26894,  
 26766..26867, 26972..27082, 26974..27081, 27212..27304

Seq. No. 44946 Seq. ID OJ000301\_17.0410.C6  
 Gene No. 94874 Strand  
 Start 30144 End 32023  
 Name OJ000301\_17.0410.C6.o2.tm Method TBLASTX:Maize  
 Start 30144 End 32023  
 GI none Score 141  
 Exons 30144..30215, 30146..30304, 30191..30295, 30196..30303,  
 30202..30321, 30324..30524, 30365..30457, 30381..30458,  
 30732..31010, 30733..31011, 30736..31017, 30737..31015,  
 31949..32023, 31950..32021

Seq. No. 44946 Seq. ID OJ000301\_17.0410.C6  
 Gene No. 94874 Strand  
 Start 30144 End 32023

Name	OJ000301_17.0410.C6.o3.ts	Method	TBLASTX:Soybean
Start	30740	End	31006
GI	none	Score	286
Exons	30740..31006		
Seq. No.	44946	Seq. ID	OJ000301_17.0410.C6
Gene No.	94874	Strand	
Start	30144	End	32023
Name	OJ000301_17.0410.C6.o4.tc	Method	TBLASTX:Cress
Start	30740	End	31020
GI	none	Score	298
Exons	30740..31006, 30740..30796, 30742..30831, 30875..31006, 30919..31020		
Seq. No.	44946	Seq. ID	OJ000301_17.0410.C6
Gene No.	94875	Strand	
Start	32205	End	32768
Name	OJ000301_17.0410.C6.o3.tm	Method	TBLASTX:Maize
Start	32205	End	32477
GI	none	Score	432
Exons	32205..32477, 32205..32474, 32207..32476		
Seq. No.	44946	Seq. ID	OJ000301_17.0410.C6
Gene No.	94875	Strand	
Start	32205	End	32768
Name	OJ000301_17.0410.C6.o5.ts	Method	TBLASTX:Soybean
Start	32358	End	32747
GI	none	Score	91
Exons	32358..32429, 32468..32602, 32484..32612, 32624..32746, 32673..32747		
Seq. No.	44946	Seq. ID	OJ000301_17.0410.C6
Gene No.	94875	Strand	
Start	32205	End	32768
Name	OJ000301_17.0410.C6.o2.tc	Method	TBLASTX:Cress
Start	32516	End	32767
GI	none	Score	344
Exons	32516..32638, 32523..32723, 32532..32765, 32675..32767		
Seq. No.	44946	Seq. ID	OJ000301_17.0410.C6
Gene No.	94875	Strand	
Start	32205	End	32768
Name	OJ000301_17.0410.C6.o5.tm	Method	TBLASTX:Maize
Start	32546	End	32768
GI	none	Score	380
Exons	32546..32638, 32547..32768, 32547..32735, 32548..32757, 32675..32767		
Seq. No.	44947	Seq. ID	OJ000301_17.0410.C7
Gene No.	94876	Strand	+
Start	654	End	911
Name	OJ000301_17.0410.C7.o1.gs	Method	GENSCAN
Start	654	End	911
GI	none	Score	.96
Exons	654..911		
Seq. No.	44948	Seq. ID	OJ000301_17.0410.C8

Gene No.	94877	Strand	+
Start	4598	End	8435
Name	OJ000301_17.0410.C8.o2.gs	Method	GENSCAN
Start	4598	End	8435
GI	none	Score	.41
Exons	4598..4752, 5052..5084, 5162..5328, 6163..6321, 7217..7324, 8251..8435		

Seq. No.	44948	Seq. ID	OJ000301_17.0410.C8
Gene No.	94878	Strand	+
Start	10177	End	14912
Name	OJ000301_17.0410.C8.o3.gs	Method	GENSCAN
Start	10177	End	12527
GI	none	Score	.84
Exons	10177..10238, 11194..11248, 11463..11627, 11676..11724, 12019..12527		

Seq. No.	44948	Seq. ID	OJ000301_17.0410.C8
Gene No.	94878	Strand	+
Start	10177	End	14912
Name	OJ000301_17.0410.C8.o2.np	Method	AAT/NAP
Start	12057	End	14897
GI	7438233	Score	218
Exons	12057..12148, 12197..12311, 14706..14897		
GI Descrip.	cysteine proteinase inhibitor, extracellular - carrot gi 2204077 dbj BAA20464.1  (D85623) extracellular insoluble cystatin [Daucus carota]		

Seq. No.	44948	Seq. ID	OJ000301_17.0410.C8
Gene No.	94878	Strand	+
Start	10177	End	14912
Name	OJ000301_17.0410.C8.o4.gs	Method	GENSCAN
Start	13729	End	14128
GI	none	Score	.51
Exons	13729..14033, 14110..14128		

Seq. No.	44948	Seq. ID	OJ000301_17.0410.C8
Gene No.	94878	Strand	+
Start	10177	End	14912
Name	OJ000301_17.0410.C8.o5.gs	Method	GENSCAN
Start	14466	End	14912
GI	none	Score	1
Exons	14466..14912		

Seq. No.	44948	Seq. ID	OJ000301_17.0410.C8
Gene No.	94879	Strand	-
Start	2038	End	2939
Name	OJ000301_17.0410.C8.o1.np	Method	AAT/NAP
Start	1992	End	2939
GI	3157929	Score	233
Exons	1992..2575, 2603..2729, 2757..2939		
GI Descrip.	(AC002131) Contains similarity to hypothetical protein gb Z97336 from A. thaliana. [Arabidopsis thaliana]		

Seq. No.	44948	Seq. ID	OJ000301_17.0410.C8
Gene No.	94879	Strand	-
Start	2038	End	2939

Name OJ000301\_17.0410.C8.o1.gs  
 Start 2038  
 GI none  
 Exons 2038..2919

Method GENSCAN  
 End 2919  
 Score .79

Seq. No. 44948  
 Gene No. 94880  
 Start 14877  
 Name OJ000301\_17.0410.C8.o1.gp  
 Start 14877  
 GI 3106982  
 Exons 14877..15076

Seq. ID OJ000301\_17.0410.C8  
 Strand -  
 End 15076  
 Method AAT/GAP  
 End 15076  
 Score 374

Seq. No. 44948  
 Gene No. 94881  
 Start 15661  
 Name OJ000301\_17.0410.C8.o6.gs  
 Start 15661  
 GI none  
 Exons 15661..15678, 15882..16001

Seq. ID OJ000301\_17.0410.C8  
 Strand -  
 End 16001  
 Method GENSCAN  
 End 16001  
 Score .52

Seq. No. 44948  
 Gene No. 94882  
 Start 15964  
 Name OJ000301\_17.0410.C8.o2.gp  
 Start 15964  
 GI none  
 Exons 15964..16301

Seq. ID OJ000301\_17.0410.C8  
 Strand -  
 End 16301  
 Method AAT/GAP  
 End 16301  
 Score 636

Seq. No. 44949  
 Gene No. 94883  
 Start 833  
 Name OJ000301\_17.0410.C9.o4.tc  
 Start 651  
 GI none  
 Exons 651..773, 671..772, 697..774,

Seq. ID OJ000301\_17.0410.C9  
 Strand -  
 End 8133  
 Method TBLASTX:Cress  
 End 922  
 Score 128  
 848..922, 849..878

Seq. No. 44949  
 Gene No. 94883  
 Start 833  
 Name OJ000301\_17.0410.C9.o1.np  
 Start 662  
 GI 6721161  
 Exons 662..772, 851..971, 1045..1191, 1281..1386, 1453..1535,  
 1671..1798, 2248..2334, 2422..2532, 3332..3499, 3564..3648,  
 3725..3841, 3950..4026, 4118..4189, 5879..5975, 6073..6275,  
 6417..6519, 6585..6652, 6753..6806, 6888..6997, 7549..7627,  
 7701..7763, 8011..8133

Seq. ID OJ000301\_17.0410.C9  
 Strand -  
 End 8133  
 Method AAT/NAP  
 End 8133  
 Score 2473

GI Descrip. (AC016829) putative O-linked GlcNAc transferase [Arabidopsis thaliana]

Seq. No. 44949  
 Gene No. 94883  
 Start 833  
 Name OJ000301\_17.0410.C9.o1.ts  
 Start 668  
 GI none

Seq. ID OJ000301\_17.0410.C9  
 Strand -  
 End 8133  
 Method TBLASTX:Soybean  
 End 8133  
 Score 109



Exons 668..772, 672..773, 673..774, 840..974, 846..950, 848..976, 865..969, 1041..1199, 1045..1191, 1057..1233, 1264..1362, 1280..1390, 1280..1390, 1284..1391, 1446..1529, 1452..1535, 1454..1537, 1454..1534, 1665..1799, 1668..1799, 1670..1804, 2238..2336, 2248..2358, 2249..2350, 2422..2535, 2423..2533, 2445..2582, 3331..3501, 3332..3505, 3522..3662, 3523..3645, 3721..3843, 3725..3844, 3950..4027, 3952..4029, 3952..4026, 4097..4192, 4122..4190, 4124..4192, 5879..5974, 5892..5984, 6072..6281, 6115..6276, 6417..6518, 6418..6519, 6584..6655, 6587..6676, 8011..8133

Seq. No.	44949	Seq. ID	OJ000301_17.0410.C9
Gene No.	94883	Strand	-
Start	833	End	8133
Name	OJ000301_17.0410.C9.o1.tm	Method	TBLASTX:Maize
Start	668	End	3786
GI	none	Score	91

Exons 668..772, 668..772, 685..774, 848..976, 849..950, 850..960, 1041..1199, 1045..1194, 1058..1195, 1228..1371, 1260..1385, 1280..1390, 1281..1391, 1452..1535, 1454..1534, 1650..1799, 1660..1803, 1665..1799, 1670..1801, 1670..1804, 2232..2336, 2245..2337, 2248..2358, 2249..2350, 2382..2534, 2422..2535, 2423..2533, 2424..2534, 2429..2542, 3332..3505, 3426..3500, 3522..3647, 3523..3648, 3541..3660, 3552..3662, 3716..3781, 3721..3786

Seq. No.	44949	Seq. ID	OJ000301_17.0410.C9
Gene No.	94883	Strand	-
Start	833	End	8133
Name	OJ000301_17.0410.C9.o1.gs	Method	GENSCAN
Start	833	End	8130
GI	none	Score	.77

Exons 833..971, 1281..1535, 1671..1798, 2248..2334, 2422..2532, 3332..3499, 3564..3648, 3725..3841, 3950..4026, 5123..5377, 5879..5975, 6073..6238, 6417..6543, 6585..6619, 7549..7627, 8011..8130

Seq. No.	44949	Seq. ID	OJ000301_17.0410.C9
Gene No.	94883	Strand	-
Start	833	End	8133
Name	OJ000301_17.0410.C9.o3.tc	Method	TBLASTX:Cress
Start	1317	End	2457
GI	none	Score	60

Exons 1317..1385, 1319..1384, 1452..1535, 1454..1543, 1457..1534, 1656..1799, 1670..1804, 2238..2318, 2248..2358, 2249..2332, 2422..2457

Seq. No.	44949	Seq. ID	OJ000301_17.0410.C9
Gene No.	94883	Strand	-
Start	833	End	8133
Name	OJ000301_17.0410.C9.o1.tc	Method	TBLASTX:Cress
Start	3332	End	4029
GI	none	Score	87

Exons 3332..3427, 3425..3505, 3426..3500, 3522..3662, 3523..3648, 3716..3844, 3721..3843, 3950..4024, 3952..4029

Seq. No.	44949	Seq. ID	OJ000301_17.0410.C9
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Gene No.	94883	Strand	-
Start	833	End	8133
Name	OJ000301_17.0410.C9.o2.tm	Method	TBLASTX:Maize
Start	3790	End	6655
GI	none	Score	59
Exons	3790..3843, 3791..3844, 3950..4030, 3950..4027, 3952..4029, 4097..4195, 4119..4196, 5879..5974, 5880..5984, 6072..6281, 6073..6276, 6417..6518, 6418..6519, 6584..6649, 6587..6655		

Seq. No.	44949	Seq. ID	OJ000301_17.0410.C9
Gene No.	94883	Strand	-
Start	833	End	8133
Name	OJ000301_17.0410.C9.o2.tc	Method	TBLASTX:Cress
Start	6057	End	6512
GI	none	Score	118
Exons	6057..6278, 6070..6294, 6075..6293, 6412..6504, 6414..6512		

Seq. No.	44949	Seq. ID	OJ000301_17.0410.C9
Gene No.	94883	Strand	-
Start	833	End	8133
Name	OJ000301_17.0410.C9.o1.gp	Method	AAT/GAP
Start	6192	End	6625
GI	none	Score	384
Exons	6192..6275, 6417..6519, 6585..6625		

Seq. No.	44950	Seq. ID	OJ000301_17.0410.C10
Gene No.	94884	Strand	+
Start	1	End	6040
Name	OJ000301_17.0410.C10.o2.np	Method	AAT/NAP
Start	1	End	6040
GI	7508879	Score	52
Exons	1..28, 1053..1121, 2280..2444, 2622..2799, 5925..6040		
GI Descrip.	hypothetical protein W03D2.1 - Caenorhabditis elegans gi 1947160 gb AAC48255.1  (AF000298) weak similarity to collagens; glycine- and proline-rich [Caenorhabditis elegans]		

Seq. No.	44950	Seq. ID	OJ000301_17.0410.C10
Gene No.	94884	Strand	+
Start	1	End	6040
Name	OJ000301_17.0410.C10.o2.gs	Method	GENSCAN
Start	2101	End	2910
GI	none	Score	.94
Exons	2101..2910		

Seq. No.	44950	Seq. ID	OJ000301_17.0410.C10
Gene No.	94885	Strand	-
Start	1	End	1114
Name	OJ000301_17.0410.C10.o1.np	Method	AAT/NAP
Start	1	End	961
GI	6721161	Score	336
Exons	1..215, 349..399, 489..587, 665..961		
GI Descrip.	(AC016829) putative O-linked GlcNAc transferase [Arabidopsis thaliana]		

Seq. No.	44950	Seq. ID	OJ000301_17.0410.C10
Gene No.	94885	Strand	-
Start	1	End	1114

Name	OJ000301_17.0410.C10.o1.gs	Method	GENSCAN
Start	349	End	1114
GI	none	Score	.52
Exons	349..399, 489..587, 665..1114		

Seq. No.	44950	Seq. ID	OJ000301_17.0410.C10
Gene No.	94886	Strand	-
Start	3364	End	6040
Name	OJ000301_17.0410.C10.o1.ts	Method	TBLASTX:Soybean
Start	64	End	811
GI	none	Score	100
Exons	64..216, 96..212, 102..209, 356..400, 487..582, 489..587, 662..811		

Seq. No.	44950	Seq. ID	OJ000301_17.0410.C10
Gene No.	94886	Strand	-
Start	3364	End	6040
Name	OJ000301_17.0410.C10.o2.tm	Method	TBLASTX:Maize
Start	64	End	814
GI	none	Score	93
Exons	64..216, 96..212, 105..212, 105..209, 346..402, 482..574, 484..579, 487..576, 489..587, 662..778, 662..814		

Seq. No.	44950	Seq. ID	OJ000301_17.0410.C10
Gene No.	94886	Strand	-
Start	3364	End	6040
Name	OJ000301_17.0410.C10.o3.gs	Method	GENSCAN
Start	3364	End	5940
GI	none	Score	.77
Exons	3364..3679, 4264..4343, 5839..5940		

Seq. No.	44950	Seq. ID	OJ000301_17.0410.C10
Gene No.	94886	Strand	-
Start	3364	End	6040
Name	OJ000301_17.0410.C10.o1.gp	Method	AAT/GAP
Start	5154	End	6040
GI	4295_1.R1084	Score	1263
Exons	5154..5577, 5664..5757, 5839..6040		
GI Descrip.	'6041855/gb AAF02164.1 AC009853_24 3.0e-38 (AC009853) unknown protein [Arabidopsis thaliana]'		

Seq. No.	44950	Seq. ID	OJ000301_17.0410.C10
Gene No.	94886	Strand	-
Start	3364	End	6040
Name	OJ000301_17.0410.C10.o1.tm	Method	TBLASTX:Maize
Start	5507	End	6040
GI	none	Score	73
Exons	5507..5593, 5525..5593, 5665..5766, 5667..5687, 5692..5760, 5702..5767, 5836..5877, 5837..5881, 5879..5935, 5881..5937, 5923..5964, 5933..5962, 5983..6039, 5984..6040		

Seq. No.	44951	Seq. ID	OJ000321_18.0413.C1
Gene No.	94887	Strand	+
Start	1	End	706
Name	OJ000321_18.0413.C1.o1.np	Method	AAT/NAP
Start	1	End	706
GI	6539553	Score	1100

Exons 1..706  
 GI Descrip. (AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]

Seq. No.	44951	Seq. ID	OJ000321_18.0413.C1
Gene No.	94887	Strand	+
Start	1	End	706
Name	OJ000321_18.0413.C1.o1.gs	Method	GENSCAN
Start	53	End	587
GI	none	Score	.61
Exons	53..587		

Seq. No.	44951	Seq. ID	OJ000321_18.0413.C1
Gene No.	94887	Strand	+
Start	1	End	706
Name	OJ000321_18.0413.C1.o1.tw	Method	TBLASTX:Wheat
Start	69	End	317
GI	none	Score	306
Exons	69..317, 78..317		

Seq. No.	44951	Seq. ID	OJ000321_18.0413.C1
Gene No.	94887	Strand	+
Start	1	End	706
Name	OJ000321_18.0413.C1.o1.ts	Method	TBLASTX:Soybean
Start	237	End	701
GI	5509260	Score	344
Exons	237..701, 513..680		
GI Descrip.	-		

Seq. No.	44951	Seq. ID	OJ000321_18.0413.C1
Gene No.	94887	Strand	+
Start	1	End	706
Name	OJ000321_18.0413.C1.o1.tc	Method	TBLASTX:Cress
Start	330	End	590
GI	none	Score	255
Exons	330..590		

Seq. No.	44951	Seq. ID	OJ000321_18.0413.C1
Gene No.	94887	Strand	+
Start	1	End	706
Name	OJ000321_18.0413.C1.o1.tm	Method	TBLASTX:Maize
Start	372	End	689
GI	none	Score	268
Exons	372..683, 507..689		

Seq. No.	44951	Seq. ID	OJ000321_18.0413.C1
Gene No.	94887	Strand	+
Start	1	End	706
Name	OJ000321_18.0413.C1.o2.tw	Method	TBLASTX:Wheat
Start	372	End	701
GI	none	Score	277
Exons	372..701		

Seq. No.	44952	Seq. ID	OJ000321_18.0413.C2
Gene No.	94888	Strand	+

Start	180	End	1204
Name	OJ000321_18.0413.C2.o1.np	Method	AAT/NAP
Start	180	End	1204
GI	5852179	Score	243
Exons	180..407, 482..676, 1157..1204		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		

Seq. No.	44952	Seq. ID	OJ000321_18.0413.C2
Gene No.	94888	Strand	+
Start	180	End	1204
Name	OJ000321_18.0413.C2.o1.gs	Method	GENSCAN
Start	212	End	667
GI	none	Score	.92
Exons	212..435, 446..667		

Seq. No.	44952	Seq. ID	OJ000321_18.0413.C2
Gene No.	94889	Strand	-
Start	870	End	1204
Name	OJ000321_18.0413.C2.o2.np	Method	AAT/NAP
Start	870	End	1204
GI	7523512	Score	156
Exons	870..995, 1182..1204		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	44953	Seq. ID	OJ000321_18.0413.C4
Gene No.	94890	Strand	-
Start	1	End	1381
Name	OJ000321_18.0413.C4.o1.np	Method	AAT/NAP
Start	1	End	1381
GI	4680179	Score	1968
Exons	1..1381		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	44953	Seq. ID	OJ000321_18.0413.C4
Gene No.	94890	Strand	-
Start	1	End	1381
Name	OJ000321_18.0413.C4.o1.tw	Method	TBLASTX:Wheat
Start	3	End	411
GI	none	Score	148
Exons	3..260, 3..410, 13..411		

Seq. No.	44953	Seq. ID	OJ000321_18.0413.C4
Gene No.	94890	Strand	-
Start	1	End	1381
Name	OJ000321_18.0413.C4.o1.tm	Method	TBLASTX:Maize
Start	60	End	500
GI	none	Score	248
Exons	60..101, 93..500, 124..447		

Seq. No.	44953	Seq. ID	OJ000321_18.0413.C4
Gene No.	94890	Strand	-
Start	1	End	1381
Name	OJ000321_18.0413.C4.o2.ts	Method	TBLASTX:Soybean
Start	126	End	374
GI	none	Score	212
Exons	126..374		

Seq. No.	44953	Seq. ID	OJ000321_18.0413.C4
Gene No.	94890	Strand	-
Start	1	End	1381
Name	OJ000321_18.0413.C4.o1.ts	Method	TBLASTX:Soybean
Start	396	End	791
GI	none	Score	189
Exons	396..647, 406..639, 702..755, 712..753, 759..791, 759..791		

Seq. No.	44953	Seq. ID	OJ000321_18.0413.C4
Gene No.	94890	Strand	-
Start	1	End	1381
Name	OJ000321_18.0413.C4.o3.tw	Method	TBLASTX:Wheat
Start	414	End	644
GI	none	Score	237
Exons	414..644, 415..642		

Seq. No.	44953	Seq. ID	OJ000321_18.0413.C4
Gene No.	94890	Strand	-
Start	1	End	1381
Name	OJ000321_18.0413.C4.o2.tm	Method	TBLASTX:Maize
Start	702	End	1149
GI	none	Score	108
Exons	702..1145, 712..1149		

Seq. No.	44953	Seq. ID	OJ000321_18.0413.C4
Gene No.	94890	Strand	-
Start	1	End	1381
Name	OJ000321_18.0413.C4.o2.tw	Method	TBLASTX:Wheat
Start	732	End	1215
GI	none	Score	223
Exons	732..1214, 735..1190, 775..1215		

Seq. No.	44953	Seq. ID	OJ000321_18.0413.C4
Gene No.	94890	Strand	-
Start	1	End	1381
Name	OJ000321_18.0413.C4.o3.ts	Method	TBLASTX:Soybean
Start	864	End	1178
GI	none	Score	184
Exons	864..1178		

Seq. No.	44953	Seq. ID	OJ000321_18.0413.C4
Gene No.	94890	Strand	-
Start	1	End	1381
Name	OJ000321_18.0413.C4.o3.tm	Method	TBLASTX:Maize
Start	1150	End	1343
GI	none	Score	148
Exons	1150..1305, 1152..1343		

Seq. No.	44954	Seq. ID	OJ000321_18.0413.C5
Gene No.	94891	Strand	-
Start	286	End	1588
Name	OJ000321_18.0413.C5.o1.np	Method	AAT/NAP
Start	286	End	1588
GI	7248395	Score	864
Exons	286..723, 858..1002, 1200..1588		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	44954	Seq. ID	OJ000321_18.0413.C5
Gene No.	94891	Strand	-
Start	286	End	1588
Name	OJ000321_18.0413.C5.o1.gs	Method	GENSCAN
Start	491	End	1351
GI	none	Score	.83
Exons	491..913, 936..1015, 1135..1351		

Seq. No.	44955	Seq. ID	OJ000321_18.0413.C6
Gene No.	94892	Strand	-
Start	1	End	6843
Name	OJ000321_18.0413.C6.o1.np	Method	AAT/NAP
Start	1	End	2217
GI	7106512	Score	487
Exons	1..34, 574..1296, 1699..1875, 1975..2084, 2158..2217		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	44955	Seq. ID	OJ000321_18.0413.C6
Gene No.	94892	Strand	-
Start	1	End	6843
Name	OJ000321_18.0413.C6.o1.gs	Method	GENSCAN
Start	672	End	6843
GI	none	Score	.46
Exons	672..1240, 1709..1835, 1975..2084, 3442..3484, 3757..3848, 5818..5962, 6230..6278, 6298..6716, 6754..6843		

Seq. No.	44955	Seq. ID	OJ000321_18.0413.C6
Gene No.	94893	Strand	-
Start	7646	End	8527
Name	OJ000321_18.0413.C6.o2.np	Method	AAT/NAP
Start	7598	End	8527
GI	6539553	Score	1395
Exons	7598..8527		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi 6539590 dbj BAA88206.1  (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	44955	Seq. ID	OJ000321_18.0413.C6
Gene No.	94893	Strand	-
Start	7646	End	8527
Name	OJ000321_18.0413.C6.o2.gs	Method	GENSCAN
Start	7646	End	8101
GI	none	Score	.51
Exons	7646..8101		

Seq. No.	44955	Seq. ID	OJ000321_18.0413.C6
Gene No.	94893	Strand	-
Start	7646	End	8527
Name	OJ000321_18.0413.C6.o1.tw	Method	TBLASTX:Wheat
Start	7721	End	8180
GI	none	Score	319
Exons	7721..8089, 7722..8090, 7731..8090, 7783..8091, 8105..8179, 8133..8180		

Seq. No.	44955	Seq. ID	OJ000321_18.0413.C6
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Gene No. 94893  
 Start 7646  
 Name OJ000321\_18.0413.C6.o2.ts  
 Start 7817  
 GI none  
 Exons 7817..8041, 8060..8185

Strand -  
 End 8527  
 Method TBLASTX:Soybean  
 End 8185  
 Score 91

Seq. No. 44955  
 Gene No. 94893  
 Start 7646  
 Name OJ000321\_18.0413.C6.o1.tm  
 Start 8036  
 GI none  
 Exons 8036..8269, 8037..8264, 8051..8314

Seq. ID OJ000321\_18.0413.C6  
 Strand -  
 End 8527  
 Method TBLASTX:Maize  
 End 8314  
 Score 144

Seq. No. 44955  
 Gene No. 94893  
 Start 7646  
 Name OJ000321\_18.0413.C6.o1.ts  
 Start 8186  
 GI none  
 Exons 8186..8326, 8325..8525, 8325..8525, 8326..8526

Seq. ID OJ000321\_18.0413.C6  
 Strand -  
 End 8527  
 Method TBLASTX:Soybean  
 End 8526  
 Score 83

Seq. No. 44956  
 Gene No. 94894  
 Start 1  
 Name OJ000321\_18.0413.C7.o1.np  
 Start 1  
 GI 6539553  
 Exons 1..1617

Seq. ID OJ000321\_18.0413.C7  
 Strand -  
 End 1617  
 Method AAT/NAP  
 End 1617  
 Score 2660

GI Descrip. (AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]

Seq. No. 44956  
 Gene No. 94894  
 Start 1  
 Name OJ000321\_18.0413.C7.o2.tw  
 Start 1  
 GI none  
 Exons 1..279, 13..204

Seq. ID OJ000321\_18.0413.C7  
 Strand -  
 End 1617  
 Method TBLASTX:Wheat  
 End 279  
 Score 59

Seq. No. 44956  
 Gene No. 94894  
 Start 1  
 Name OJ000321\_18.0413.C7.o1.gs  
 Start 145  
 GI none  
 Exons 145..1287

Seq. ID OJ000321\_18.0413.C7  
 Strand -  
 End 1617  
 Method GENSCAN  
 End 1287  
 Score .93

Seq. No. 44956  
 Gene No. 94894  
 Start 1  
 Name OJ000321\_18.0413.C7.o1.tm  
 Start 411  
 GI none

Seq. ID OJ000321\_18.0413.C7  
 Strand -  
 End 1617  
 Method TBLASTX:Maize  
 End 733  
 Score 366



Exons 411..602, 412..726, 413..706, 413..733

Seq. No.	44956	Seq. ID	OJ000321_18.0413.C7
Gene No.	94894	Strand	-
Start	1	End	1617
Name	OJ000321_18.0413.C7.o2.tm	Method	TBLASTX:Maize
Start	1232	End	1545
GI	none	Score	264
Exons	1232..1537, 1237..1539, 1237..1545		

Seq. No.	44956	Seq. ID	OJ000321_18.0413.C7
Gene No.	94894	Strand	-
Start	1	End	1617
Name	OJ000321_18.0413.C7.o1.tw	Method	TBLASTX:Wheat
Start	1294	End	1617
GI	none	Score	208
Exons	1294..1617, 1295..1615		

Seq. No.	44957	Seq. ID	OJ000321_18.0413.C8
Gene No.	94895	Strand	-
Start	1269	End	9069
Name	OJ000321_18.0413.C8.o1.gs	Method	GENSCAN
Start	1269	End	3025
GI	none	Score	.66
Exons	1269..1618, 2150..2547, 2772..3025		

Seq. No.	44957	Seq. ID	OJ000321_18.0413.C8
Gene No.	94895	Strand	-
Start	1269	End	9069
Name	OJ000321_18.0413.C8.o1.np	Method	AAT/NAP
Start	1272	End	6343
GI	7489738	Score	2381
Exons	1272..3502, 4030..4070, 6287..6343		
GI Descrip.	gag-pol polyprotein - maize copia-like retrotransposon Sto-4 gi 4234852 gb AAD12997.1  (AF082133) gag-pol polyprotein [Zea mays]		

Seq. No.	44957	Seq. ID	OJ000321_18.0413.C8
Gene No.	94895	Strand	-
Start	1269	End	9069
Name	OJ000321_18.0413.C8.o2.tw	Method	TBLASTX:Wheat
Start	1326	End	1722
GI	none	Score	117
Exons	1326..1718, 1489..1722, 1514..1720		

Seq. No.	44957	Seq. ID	OJ000321_18.0413.C8
Gene No.	94895	Strand	-
Start	1269	End	9069
Name	OJ000321_18.0413.C8.o2.tm	Method	TBLASTX:Maize
Start	1782	End	2078
GI	none	Score	53
Exons	1782..2078, 1783..1830, 1876..1938		

Seq. No.	44957	Seq. ID	OJ000321_18.0413.C8
Gene No.	94895	Strand	-
Start	1269	End	9069
Name	OJ000321_18.0413.C8.o1.tw	Method	TBLASTX:Wheat

Start	1878	End	2658
GI	none	Score	46
Exons	1878..2327, 1882..1980, 1917..2327, 2041..2328, 2304..2537, 2311..2658, 2313..2657		

Seq. No.	44957	Seq. ID	OJ000321_18.0413.C8
Gene No.	94895	Strand	-
Start	1269	End	9069
Name	OJ000321_18.0413.C8.o1.tm	Method	TBLASTX:Maize
Start	2124	End	2519
GI	none	Score	261
Exons	2124..2519		

Seq. No.	44957	Seq. ID	OJ000321_18.0413.C8
Gene No.	94895	Strand	-
Start	1269	End	9069
Name	OJ000321_18.0413.C8.o1.ts	Method	TBLASTX:Soybean
Start	2349	End	2744
GI	5509260	Score	44
Exons	2349..2744, 2350..2382, 2425..2697		
GI Descrip.	-		

Seq. No.	44957	Seq. ID	OJ000321_18.0413.C8
Gene No.	94895	Strand	-
Start	1269	End	9069
Name	OJ000321_18.0413.C8.o1.tc	Method	TBLASTX:Cress
Start	2448	End	2699
GI	none	Score	72
Exons	2448..2699, 2575..2697		

Seq. No.	44957	Seq. ID	OJ000321_18.0413.C8
Gene No.	94895	Strand	-
Start	1269	End	9069
Name	OJ000321_18.0413.C8.o2.gs	Method	GENSCAN
Start	3635	End	6798
GI	none	Score	.54
Exons	3635..4012, 4471..4524, 4556..4959, 5033..5172, 5246..5304, 5375..5566, 5634..5821, 5925..5997, 6549..6694, 6696..6798		

Seq. No.	44957	Seq. ID	OJ000321_18.0413.C8
Gene No.	94895	Strand	-
Start	1269	End	9069
Name	OJ000321_18.0413.C8.o2.np	Method	AAT/NAP
Start	4429	End	5630
GI	6721561	Score	1143
Exons	4429..5172, 5246..5304, 5375..5630		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6815086 dbj BAA90372.1  (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	44957	Seq. ID	OJ000321_18.0413.C8
Gene No.	94895	Strand	-
Start	1269	End	9069
Name	OJ000321_18.0413.C8.o3.np	Method	AAT/NAP
Start	4541	End	6558

GI 6721558 Score 247  
 Exons 4541..4662, 4919..5008, 5634..5758, 6459..6558  
 GI Descrip. (AP001073) hypothetical protein [Oryza sativa]  
 gi|6815083|dbj|BAA90369.1| (AP001081) hypothetical protein  
 [Oryza sativa]

Seq. No. 44957 Seq. ID OJ000321\_18.0413.C8  
 Gene No. 94895 Strand -  
 Start 1269 End 9069  
 Name OJ000321\_18.0413.C8.o4.np Method AAT/NAP  
 Start 5747 End 9069  
 GI 6721512 Score 89  
 Exons 5747..5791, 7195..7335, 7363..7454, 9032..9069  
 GI Descrip. (AP001072) hypothetical protein [Oryza sativa]

Seq. No. 44958 Seq. ID OJ000321\_18.0413.C9  
 Gene No. 94896 Strand +  
 Start 201 End 6267  
 Name OJ000321\_18.0413.C9.o1.gs Method GENSCAN  
 Start 201 End 6267  
 GI none Score .65  
 Exons 201..230, 796..838, 1045..1091, 2418..2792, 2973..3072,  
 3879..3992, 4624..4785, 5437..5930, 5963..6056, 6104..6267

Seq. No. 44958 Seq. ID OJ000321\_18.0413.C9  
 Gene No. 94896 Strand +  
 Start 201 End 6267  
 Name OJ000321\_18.0413.C9.o2.np Method AAT/NAP  
 Start 1897 End 5997  
 GI 5305335 Score 154  
 Exons 1897..2711, 3554..3638, 5878..5997  
 GI Descrip. (AF071081) proline-rich mucin homolog [Mycobacterium  
 tuberculosis]

Seq. No. 44958 Seq. ID OJ000321\_18.0413.C9  
 Gene No. 94897 Strand -  
 Start 177 End 3172  
 Name OJ000321\_18.0413.C9.o1.np Method AAT/NAP  
 Start 177 End 3172  
 GI 5922620 Score 116  
 Exons 177..319, 1111..1179, 1217..1370, 1413..1587, 3148..3172  
 GI Descrip. (AP000492) EST D15357(C0514) corresponds to a region of the  
 predicted gene.; hypothetical protein [Oryza sativa]  
 gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514)  
 corresponds to a region of the predicted gene.; hypothetical  
 protein [Oryza sativa]

Seq. No. 44958 Seq. ID OJ000321\_18.0413.C9  
 Gene No. 94898 Strand -  
 Start 4382 End 8723  
 Name OJ000321\_18.0413.C9.o3.np Method AAT/NAP  
 Start 4382 End 8723  
 GI 5042454 Score 3173  
 Exons 4382..4435, 4682..4857, 5083..5110, 5694..6241, 6873..8493,  
 8550..8723  
 GI Descrip. (AC007789) putative polyprotein [Oryza sativa]

Seq. No.	44958	Seq. ID	OJ000321_18.0413.C9
Gene No.	94898	Strand	-
Start	4382	End	8723
Name	OJ000321_18.0413.C9.o2.tw	Method	TBLASTX:Wheat
Start	5589	End	5885
GI	none	Score	116
Exons	5589..5885, 5593..5757, 5682..5825		

Seq. No.	44958	Seq. ID	OJ000321_18.0413.C9
Gene No.	94898	Strand	-
Start	4382	End	8723
Name	OJ000321_18.0413.C9.o2.gp	Method	AAT/GAP
Start	6275	End	6732
GI	2428323	Score	644
Exons	6275..6732		
GI Descrip.	5803242/dbj AP000399.1 AP000399 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04		

Seq. No.	44958	Seq. ID	OJ000321_18.0413.C9
Gene No.	94898	Strand	-
Start	4382	End	8723
Name	OJ000321_18.0413.C9.o2.gs	Method	GENSCAN
Start	6872	End	8654
GI	none	Score	.57
Exons	6872..7306, 7312..7523, 7677..7816, 7831..7988, 8131..8520, 8550..8654		

Seq. No.	44958	Seq. ID	OJ000321_18.0413.C9
Gene No.	94898	Strand	-
Start	4382	End	8723
Name	OJ000321_18.0413.C9.o2.tm	Method	TBLASTX:Maize
Start	6872	End	7016
GI	none	Score	128
Exons	6872..7015, 6876..7016		

Seq. No.	44958	Seq. ID	OJ000321_18.0413.C9
Gene No.	94898	Strand	-
Start	4382	End	8723
Name	OJ000321_18.0413.C9.o1.tw	Method	TBLASTX:Wheat
Start	7429	End	7821
GI	none	Score	95
Exons	7429..7686, 7463..7702, 7669..7767, 7670..7762, 7774..7821		

Seq. No.	44958	Seq. ID	OJ000321_18.0413.C9
Gene No.	94898	Strand	-
Start	4382	End	8723
Name	OJ000321_18.0413.C9.o1.tm	Method	TBLASTX:Maize
Start	7531	End	7816
GI	none	Score	85
Exons	7531..7779, 7532..7816		

Seq. No.	44959	Seq. ID	OJ000321_18.0413.C10
Gene No.	94899	Strand	+
Start	1	End	1501
Name	OJ000321_18.0413.C10.o1.np	Method	AAT/NAP
Start	1	End	1498
GI	6983860	Score	2567

Exons 1..1498  
 GI Descrip. (AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]

Seq. No.	44959	Seq. ID	OJ000321_18.0413.C10
Gene No.	94899	Strand	+
Start	1	End	1501
Name	OJ000321_18.0413.C10.o1.gs	Method	GENSCAN
Start	104	End	1501
GI	none	Score	.52
Exons	104..1150, 1283..1501		

Seq. No.	44959	Seq. ID	OJ000321_18.0413.C10
Gene No.	94900	Strand	+
Start	1686	End	3822
Name	OJ000321_18.0413.C10.o3.np	Method	AAT/NAP
Start	1686	End	3822
GI	6063554	Score	171
Exons	1686..1711, 2249..2530, 3648..3822		
GI Descrip.	(AP000615) ESTs AU075609(C63344), C71850(E0464), C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	44959	Seq. ID	OJ000321_18.0413.C10
Gene No.	94901	Strand	+
Start	4604	End	4804
Name	OJ000321_18.0413.C10.o4.np	Method	AAT/NAP
Start	4604	End	4804
GI	4680186	Score	333
Exons	4604..4804		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	44959	Seq. ID	OJ000321_18.0413.C10
Gene No.	94902	Strand	+
Start	5683	End	6118
Name	OJ000321_18.0413.C10.o5.np	Method	AAT/NAP
Start	5683	End	6118
GI	4680185	Score	498
Exons	5683..6118		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	44959	Seq. ID	OJ000321_18.0413.C10
Gene No.	94903	Strand	+
Start	11129	End	12462
Name	OJ000321_18.0413.C10.o6.np	Method	AAT/NAP
Start	11129	End	12462
GI	7489803	Score	1674
Exons	11129..12462		
GI Descrip.	pol protein homolog - maize retrotransposon Opie-2 gi 3645899 gb AAC49502.1  (U68408) 5' end not determined experimentally [Zea mays]		

Seq. No.	44959	Seq. ID	OJ000321_18.0413.C10
Gene No.	94904	Strand	-
Start	765	End	3635
Name	OJ000321_18.0413.C10.o2.np	Method	AAT/NAP
Start	765	End	3574

GI 5852179 Score 257  
 Exons 765..818, 2225..2457, 2532..2739, 3554..3574  
 GI Descrip. (AL117265) zhb0009.1 [Oryza sativa]

Seq. No.	44959	Seq. ID	OJ000321_18.0413.C10
Gene No.	94904	Strand	-
Start	765	End	3635
Name	OJ000321_18.0413.C10.o2.gs	Method	GENSCAN
Start	2272	End	3635
GI	none	Score	.76
Exons	2272..2493, 2504..2727, 3554..3635		

Seq. No.	44959	Seq. ID	OJ000321_18.0413.C10
Gene No.	94905	Strand	-
Start	4493	End	4737
Name	OJ000321_18.0413.C10.o2.tw	Method	TBLASTX:Wheat
Start	5	End	487
GI	none	Score	595
Exons	5..487, 130..483		

Seq. No.	44959	Seq. ID	OJ000321_18.0413.C10
Gene No.	94905	Strand	-
Start	4493	End	4737
Name	OJ000321_18.0413.C10.o2.tc	Method	TBLASTX:Cress
Start	185	End	511
GI	none	Score	90
Exons	185..367, 368..511, 370..510		

Seq. No.	44959	Seq. ID	OJ000321_18.0413.C10
Gene No.	94905	Strand	-
Start	4493	End	4737
Name	OJ000321_18.0413.C10.o1.ts	Method	TBLASTX:Soybean
Start	275	End	535
GI	none	Score	301
Exons	275..535, 286..534		

Seq. No.	44959	Seq. ID	OJ000321_18.0413.C10
Gene No.	94905	Strand	-
Start	4493	End	4737
Name	OJ000321_18.0413.C10.o4.tm	Method	TBLASTX:Maize
Start	334	End	625
GI	none	Score	406
Exons	334..621, 335..625, 467..622		

Seq. No.	44959	Seq. ID	OJ000321_18.0413.C10
Gene No.	94905	Strand	-
Start	4493	End	4737
Name	OJ000321_18.0413.C10.o1.tw	Method	TBLASTX:Wheat
Start	494	End	1120
GI	none	Score	707
Exons	494..1120, 550..999, 551..1111, 1060..1119		

Seq. No.	44959	Seq. ID	OJ000321_18.0413.C10
Gene No.	94905	Strand	-
Start	4493	End	4737
Name	OJ000321_18.0413.C10.o2.tm	Method	TBLASTX:Maize
Start	673	End	1258

GI	none	Score	229
Exons	673..828, 674..835, 832..993, 833..1258, 995..1237, 1060..1257		

Seq. No.	44959	Seq. ID	OJ000321_18.0413.C10
Gene No.	94905	Strand	-
Start	4493	End	4737
Name	OJ000321_18.0413.C10.o4.tw	Method	TBLASTX:Wheat
Start	1120	End	1453
GI	none	Score	304
Exons	1120..1401, 1121..1453, 1271..1402		

Seq. No.	44959	Seq. ID	OJ000321_18.0413.C10
Gene No.	94905	Strand	-
Start	4493	End	4737
Name	OJ000321_18.0413.C10.o1.gp	Method	AAT/GAP
Start	4493	End	4737
GI	uC-osflcyp033a04b1	Score	414
Exons	4493..4737		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	44959	Seq. ID	OJ000321_18.0413.C10
Gene No.	94906	Strand	-
Start	9058	End	9621
Name	OJ000321_18.0413.C10.o5.tw	Method	TBLASTX:Wheat
Start	9058	End	9462
GI	none	Score	243
Exons	9058..9462, 9067..9162, 9069..9167		

Seq. No.	44959	Seq. ID	OJ000321_18.0413.C10
Gene No.	94906	Strand	-
Start	9058	End	9621
Name	OJ000321_18.0413.C10.o6.tm	Method	TBLASTX:Maize
Start	9211	End	9621
GI	none	Score	200
Exons	9211..9621		

Seq. No.	44959	Seq. ID	OJ000321_18.0413.C10
Gene No.	94907	Strand	-
Start	11040	End	11381
Name	OJ000321_18.0413.C10.o5.tm	Method	TBLASTX:Maize
Start	11040	End	11381
GI	none	Score	43
Exons	11040..11114, 11040..11114, 11041..11118, 11124..11219, 11143..11286, 11144..11290, 11196..11381, 11255..11380		

Seq. No.	44959	Seq. ID	OJ000321_18.0413.C10
Gene No.	94908	Strand	-
Start	11382	End	12462
Name	OJ000321_18.0413.C10.o3.tm	Method	TBLASTX:Maize
Start	11382	End	11777
GI	none	Score	85
Exons	11382..11498, 11396..11497, 11501..11776, 11508..11777		

Seq. No.	44959	Seq. ID	OJ000321_18.0413.C10
Gene No.	94908	Strand	-
Start	11382	End	12462

Name	OJ000321_18.0413.C10.o3.tw	Method	TBLASTX:Wheat
Start	11553	End	12113
GI	none	Score	279
Exons	11553..11798, 11553..11765, 11555..11773, 11711..11818, 11734..11841, 11749..11796, 11800..11829, 11825..12112, 11829..12113		

Seq. No.	44959	Seq. ID	OJ000321_18.0413.C10
Gene No.	94908	Strand	
Start	11382	End	12462
Name	OJ000321_18.0413.C10.o1.tm	Method	TBLASTX:Maize
Start	11778	End	12462
GI	none	Score	110
Exons	11778..11849, 11783..12460, 11850..12461, 11989..12462		

Seq. No.	44959	Seq. ID	OJ000321_18.0413.C10
Gene No.	94908	Strand	
Start	11382	End	12462
Name	OJ000321_18.0413.C10.o2.ts	Method	TBLASTX:Soybean
Start	11958	End	12416
GI	none	Score	292
Exons	11958..12416, 11978..12268, 11982..12416		

Seq. No.	44959	Seq. ID	OJ000321_18.0413.C10
Gene No.	94908	Strand	
Start	11382	End	12462
Name	OJ000321_18.0413.C10.o1.tc	Method	TBLASTX:Cress
Start	11994	End	12416
GI	none	Score	215
Exons	11994..12416		

Seq. No.	44959	Seq. ID	OJ000321_18.0413.C10
Gene No.	94908	Strand	
Start	11382	End	12462
Name	OJ000321_18.0413.C10.o6.tw	Method	TBLASTX:Wheat
Start	12201	End	12459
GI	none	Score	133
Exons	12201..12290, 12203..12277, 12211..12279, 12279..12443, 12290..12454, 12298..12459		

Seq. No.	44960	Seq. ID	OJ000321_18.0413.C11
Gene No.	94909	Strand	+
Start	1	End	2511
Name	OJ000321_18.0413.C11.o1.np	Method	AAT/NAP
Start	1	End	884
GI	6630685	Score	1454
Exons	1..884		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	44960	Seq. ID	OJ000321_18.0413.C11
Gene No.	94909	Strand	+
Start	1	End	2511
Name	OJ000321_18.0413.C11.o1.gs	Method	GENSCAN
Start	27	End	2511
GI	none	Score	.53
Exons	27..198, 1836..1931, 2381..2511		



Seq. No.	44960	Seq. ID	OJ000321_18.0413.C11
Gene No.	94910	Strand	+
Start	3206	End	4351
Name	OJ000321_18.0413.C11.o2.np	Method	AAT/NAP
Start	3206	End	4351
GI	5852178	Score	327
Exons	3206..3271, 3556..3892, 4256..4351		
GI Descrip.	(AL117265) zhb0008.1 [Oryza sativa]		

Seq. No.	44960	Seq. ID	OJ000321_18.0413.C11
Gene No.	94911	Strand	+
Start	4459	End	4890
Name	OJ000321_18.0413.C11.o1.gp	Method	AAT/GAP
Start	4459	End	4890
GI	2428185	Score	705
Exons	4459..4890		
GI Descrip.	5852170/emb AL117265.1 OST17804 1.0e-177 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	44960	Seq. ID	OJ000321_18.0413.C11
Gene No.	94912	Strand	+
Start	4887	End	7927
Name	OJ000321_18.0413.C11.o3.gs	Method	GENSCAN
Start	4887	End	7843
GI	none	Score	.69
Exons	4887..4955, 6336..6899, 7292..7641, 7666..7843		

Seq. No.	44960	Seq. ID	OJ000321_18.0413.C11
Gene No.	94912	Strand	+
Start	4887	End	7927
Name	OJ000321_18.0413.C11.o3.np	Method	AAT/NAP
Start	6228	End	7024
GI	4512231	Score	1266
Exons	6228..7024		
GI Descrip.	(AB014741) ORF0 protein [Oryza sativa]		

Seq. No.	44960	Seq. ID	OJ000321_18.0413.C11
Gene No.	94912	Strand	+
Start	4887	End	7927
Name	OJ000321_18.0413.C11.o4.np	Method	AAT/NAP
Start	7292	End	7927
GI	6983860	Score	1032
Exons	7292..7927		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	44960	Seq. ID	OJ000321_18.0413.C11
Gene No.	94913	Strand	-
Start	3534	End	3878
Name	OJ000321_18.0413.C11.o2.tm	Method	TBLASTX:Maize
Start	9	End	212
GI	none	Score	233
Exons	9..212, 29..211, 78..212		

Seq. No.	44960	Seq. ID	OJ000321_18.0413.C11
Gene No.	94913	Strand	-

Start	3534	End	3878
Name	OJ000321_18.0413.C11.o1.tm	Method	TBLASTX:Maize
Start	213	End	959
GI	none	Score	217
Exons	213..362, 221..358, 222..371, 359..940, 360..914, 558..959, 701..940		

Seq. No.	44960	Seq. ID	OJ000321_18.0413.C11
Gene No.	94913	Strand	-
Start	3534	End	3878
Name	OJ000321_18.0413.C11.o1.ts	Method	TBLASTX:Soybean
Start	231	End	869
GI	none	Score	79
Exons	231..362, 369..617, 452..616, 629..721, 636..869		

Seq. No.	44960	Seq. ID	OJ000321_18.0413.C11
Gene No.	94913	Strand	-
Start	3534	End	3878
Name	OJ000321_18.0413.C11.o1.tc	Method	TBLASTX:Cress
Start	402	End	866
GI	none	Score	65
Exons	402..497, 501..635, 647..811, 654..866		

Seq. No.	44960	Seq. ID	OJ000321_18.0413.C11
Gene No.	94913	Strand	-
Start	3534	End	3878
Name	OJ000321_18.0413.C11.o2.tw	Method	TBLASTX:Wheat
Start	501	End	833
GI	none	Score	100
Exons	501..626, 521..601, 645..833		

Seq. No.	44960	Seq. ID	OJ000321_18.0413.C11
Gene No.	94913	Strand	-
Start	3534	End	3878
Name	OJ000321_18.0413.C11.o2.gs	Method	GENSCAN
Start	3534	End	3878
GI	none	Score	.87
Exons	3534..3878		

Seq. No.	44960	Seq. ID	OJ000321_18.0413.C11
Gene No.	94914	Strand	-
Start	7469	End	7825
Name	OJ000321_18.0413.C11.o1.tw	Method	TBLASTX:Wheat
Start	7469	End	7825
GI	none	Score	283
Exons	7469..7825, 7492..7569, 7505..7822, 7669..7824		

Seq. No.	44961	Seq. ID	OJ000321_18.0413.C12
Gene No.	94915	Strand	+
Start	1	End	651
Name	OJ000321_18.0413.C12.o1.np	Method	AAT/NAP
Start	1	End	651
GI	6907087	Score	109
Exons	1..102, 551..651		
GI Descrip.	(AP001129) ESTs C72771(E2215), AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	44961	Seq. ID	OJ000321_18.0413.C12
Gene No.	94916	Strand	-
Start	80	End	645
Name	OJ000321_18.0413.C12.o1.gs	Method	GENSCAN
Start	80	End	645
GI	none	Score	.74
Exons	80..294, 501..645		
Seq. No.	44962	Seq. ID	OJ000321_18.0413.C13
Gene No.	94917	Strand	+
Start	589	End	978
Name	OJ000321_18.0413.C13.o1.gs	Method	GENSCAN
Start	589	End	978
GI	none	Score	.57
Exons	589..849, 919..978		
Seq. No.	44962	Seq. ID	OJ000321_18.0413.C13
Gene No.	94918	Strand	+
Start	6123	End	8143
Name	OJ000321_18.0413.C13.o1.gp	Method	AAT/GAP
Start	6123	End	6504
GI	uC-osflcyp033a04b1	Score	675
Exons	6123..6504		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	44962	Seq. ID	OJ000321_18.0413.C13
Gene No.	94918	Strand	+
Start	6123	End	8143
Name	OJ000321_18.0413.C13.o2.np	Method	AAT/NAP
Start	6361	End	8143
GI	6539553	Score	752
Exons	6361..6415, 7658..8143		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi 6539590 dbj BAA88206.1  (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		
Seq. No.	44962	Seq. ID	OJ000321_18.0413.C13
Gene No.	94919	Strand	-
Start	3900	End	8143
Name	OJ000321_18.0413.C13.o1.np	Method	AAT/NAP
Start	3900	End	8143
GI	5852180	Score	502
Exons	3900..3949, 4741..4796, 4824..5178, 5230..5348, 6353..6415, 8081..8143		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		
Seq. No.	44963	Seq. ID	OJ000321_18.0413.C14
Gene No.	94920	Strand	+
Start	1	End	335
Name	OJ000321_18.0413.C14.o1.gp	Method	AAT/GAP
Start	1	End	335
GI	2310195	Score	654
Exons	1..335		

Seq. No.	44963	Seq. ID	OJ000321_18.0413.C14
Gene No.	94921	Strand	+
Start	368	End	1616
Name	OJ000321_18.0413.C14.o1.gs	Method	GENSCAN
Start	368	End	1616
GI	none	Score	.76
Exons	368..459, 596..766, 961..1162, 1458..1616		

Seq. No.	44963	Seq. ID	OJ000321_18.0413.C14
Gene No.	94922	Strand	-
Start	1	End	3362
Name	OJ000321_18.0413.C14.o2.np	Method	AAT/NAP
Start	1	End	3362
GI	5852176	Score	829
Exons	1..29, 1562..1678, 2244..2274, 2372..2537, 2811..3107, 3162..3362		

GI Descrip. (AL117265) zhb0006.1 [Oryza sativa]

Seq. No.	44963	Seq. ID	OJ000321_18.0413.C14
Gene No.	94922	Strand	-
Start	1	End	3362
Name	OJ000321_18.0413.C14.o2.gp	Method	AAT/GAP
Start	1481	End	1679
GI	28898_2.R1084	Score	179
Exons	1481..1679		
GI Descrip.	'5042437/gb AC007789.1 AC007789 1.0e-69 Oryza sativa BAC T49B20 genomic sequence, complete sequence'		

Seq. No.	44963	Seq. ID	OJ000321_18.0413.C14
Gene No.	94922	Strand	-
Start	1	End	3362
Name	OJ000321_18.0413.C14.o2.gs	Method	GENSCAN
Start	2146	End	3252
GI	none	Score	.4
Exons	2146..2183, 2372..2537, 2661..3252		

Seq. No.	44963	Seq. ID	OJ000321_18.0413.C14
Gene No.	94922	Strand	-
Start	1	End	3362
Name	OJ000321_18.0413.C14.o1.tm	Method	TBLASTX:Maize
Start	2155	End	2340
GI	none	Score	37
Exons	2155..2340, 2158..2184, 2168..2335		

Seq. No.	44963	Seq. ID	OJ000321_18.0413.C14
Gene No.	94922	Strand	-
Start	1	End	3362
Name	OJ000321_18.0413.C14.o1.tw	Method	TBLASTX:Wheat
Start	3096	End	3357
GI	none	Score	41
Exons	3096..3356, 3128..3184, 3150..3335, 3211..3357		

Seq. No.	44963	Seq. ID	OJ000321_18.0413.C14
Gene No.	94922	Strand	-
Start	1	End	3362
Name	OJ000321_18.0413.C14.o2.tm	Method	TBLASTX:Maize
Start	3108	End	3335

GI	none	Score	190
Exons	3108..3335		
Seq. No.	44963	Seq. ID	OJ000321_18.0413.C14
Gene No.	94922	Strand	-
Start	1	End	3362
Name	OJ000321_18.0413.C14.ol.tc	Method	TBLASTX:Cress
Start	3138	End	3335
GI	none	Score	68
Exons	3138..3335, 3207..3332		

Seq. No.	44963	Seq. ID	OJ000321_18.0413.C14
Gene No.	94922	Strand	-
Start	1	End	3362
Name	OJ000321_18.0413.C14.ol.ts	Method	TBLASTX:Soybean
Start	3138	End	3350
GI	none	Score	75
Exons	3138..3218, 3225..3350, 3234..3341		

Seq. No.	44964	Seq. ID	OJ000321_18.0413.C15
Gene No.	94923	Strand	-
Start	1	End	2636
Name	OJ000321_18.0413.C15.ol.np	Method	AAT/NAP
Start	1	End	2636
GI	5852176	Score	1299
Exons	1..123, 1006..1227, 1304..1834, 2494..2636		
GI Descrip.	(AL117265) zhb0006.1 [Oryza sativa]		

Seq. No.	44964	Seq. ID	OJ000321_18.0413.C15
Gene No.	94923	Strand	-
Start	1	End	2636
Name	OJ000321_18.0413.C15.ol.tc	Method	TBLASTX:Cress
Start	235	End	1931
GI	none	Score	64
Exons	235..603, 643..870, 701..853, 1004..1231, 1818..1931		

Seq. No.	44965	Seq. ID	OJ000321_18.0413.C16
Gene No.	94924	Strand	+
Start	100	End	3523
Name	OJ000321_18.0413.C16.ol.np	Method	AAT/NAP
Start	100	End	3337
GI	7486903	Score	2486
Exons	100..1491, 1527..3337		
GI Descrip.	hypothetical protein T12H20.3 - Arabidopsis thaliana gi 3600033 gb AAC35521.1  (AF080119) contains similarity to the N terminal domain of the E1 protein (Pfam: E1_N.hmm, score: 12.36) [Arabidopsis thaliana] gi 7267769 emb CAB81172.1  (AL161518) putative transcriptional regulator [Arabidopsis thaliana]		

Seq. No.	44965	Seq. ID	OJ000321_18.0413.C16
Gene No.	94924	Strand	+
Start	100	End	3523
Name	OJ000321_18.0413.C16.ol.gs	Method	GENSCAN
Start	116	End	3325
GI	none	Score	.76
Exons	116..3325		

Seq. No.	44965	Seq. ID	OJ000321_18.0413.C16
Gene No.	94924	Strand	+
Start	100	End	3523
Name	OJ000321_18.0413.C16.o1.gp	Method	AAT/GAP
Start	2069	End	2453
GI	701263	Score	746
Exons	2069..2453		
GI Descrip.	3600033 5.0e-38 (AF080119) contains similarity to the N terminal domain of the E1 protein (Pfam: E1_N.hmm, score: 12.36) [Arabidopsis thaliana]		

Seq. No.	44965	Seq. ID	OJ000321_18.0413.C16
Gene No.	94924	Strand	+
Start	100	End	3523
Name	OJ000321_18.0413.C16.o2.gp	Method	AAT/GAP
Start	2914	End	3523
GI	3768635	Score	737
Exons	2914..3523		

Seq. No.	44965	Seq. ID	OJ000321_18.0413.C16
Gene No.	94925	Strand	-
Start	5736	End	7871
Name	OJ000321_18.0413.C16.o1.tc	Method	TBLASTX:Cress
Start	143	End	538
GI	none	Score	322
Exons	143..538, 188..520, 190..525		

Seq. No.	44965	Seq. ID	OJ000321_18.0413.C16
Gene No.	94925	Strand	-
Start	5736	End	7871
Name	OJ000321_18.0413.C16.o4.tm	Method	TBLASTX:Maize
Start	218	End	619
GI	none	Score	347
Exons	218..619, 229..405, 245..421, 454..618		

Seq. No.	44965	Seq. ID	OJ000321_18.0413.C16
Gene No.	94925	Strand	-
Start	5736	End	7871
Name	OJ000321_18.0413.C16.o3.tm	Method	TBLASTX:Maize
Start	737	End	1115
GI	none	Score	153
Exons	737..895, 746..895, 893..1096, 894..1115		

Seq. No.	44965	Seq. ID	OJ000321_18.0413.C16
Gene No.	94925	Strand	-
Start	5736	End	7871
Name	OJ000321_18.0413.C16.o4.ts	Method	TBLASTX:Soybean
Start	995	End	1198
GI	none	Score	202
Exons	995..1198, 997..1197		

Seq. No.	44965	Seq. ID	OJ000321_18.0413.C16
Gene No.	94925	Strand	-
Start	5736	End	7871
Name	OJ000321_18.0413.C16.o1.tm	Method	TBLASTX:Maize
Start	1129	End	3301

GI	none	Score	309
Exons	1129..1482, 1130..1483, 1217..1486, 1218..1502, 1603..1674, 1720..1863, 1721..1891, 1982..2080, 2147..2263, 2153..2242, 2158..2259, 2243..2938, 2266..2853, 2270..2938, 3021..3098, 3158..3301		

Seq. No.	44965	Seq. ID	OJ000321_18.0413.C16
Gene No.	94925	Strand	-
Start	5736	End	7871
Name	OJ000321_18.0413.C16.o2.ts	Method	TBLASTX:Soybean
Start	1199	End	1450
GI	none	Score	265
Exons	1199..1450, 1210..1254, 1218..1394, 1223..1399, 1300..1449		

Seq. No.	44965	Seq. ID	OJ000321_18.0413.C16
Gene No.	94925	Strand	-
Start	5736	End	7871
Name	OJ000321_18.0413.C16.o1.ts	Method	TBLASTX:Soybean
Start	2399	End	2845
GI	none	Score	407
Exons	2399..2845, 2503..2844		

Seq. No.	44965	Seq. ID	OJ000321_18.0413.C16
Gene No.	94925	Strand	-
Start	5736	End	7871
Name	OJ000321_18.0413.C16.o2.gs	Method	GENSCAN
Start	5736	End	7871
GI	none	Score	.5
Exons	5736..5943, 6956..7109, 7215..7338, 7453..7548, 7722..7871		

Seq. No.	44965	Seq. ID	OJ000321_18.0413.C16
Gene No.	94925	Strand	-
Start	5736	End	7871
Name	OJ000321_18.0413.C16.o2.tm	Method	TBLASTX:Maize
Start	6753	End	7830
GI	none	Score	71
Exons	6753..6809, 6754..6807, 6929..7099, 6958..7104, 6961..7095, 7007..7108, 7183..7365, 7191..7412, 7199..7363, 7215..7364, 7445..7549, 7450..7548, 7696..7830, 7719..7805		

Seq. No.	44965	Seq. ID	OJ000321_18.0413.C16
Gene No.	94925	Strand	-
Start	5736	End	7871
Name	OJ000321_18.0413.C16.o3.ts	Method	TBLASTX:Soybean
Start	6994	End	7830
GI	none	Score	76
Exons	6994..7104, 7264..7365, 7265..7360, 7447..7551, 7450..7548, 7696..7830, 7719..7820		

Seq. No.	44965	Seq. ID	OJ000321_18.0413.C16
Gene No.	94925	Strand	-
Start	5736	End	7871
Name	OJ000321_18.0413.C16.o2.tc	Method	TBLASTX:Cress
Start	7027	End	7830
GI	none	Score	61
Exons	7027..7110, 7255..7314, 7264..7311, 7324..7365, 7439..7549, 7447..7551, 7450..7548, 7719..7826, 7719..7820, 7720..7830		

Seq. No.	44965	Seq. ID	OJ000321_18.0413.C16
Gene No.	94925	Strand	-
Start	5736	End	7871
Name	OJ000321_18.0413.C16.o3.gp	Method	AAT/GAP
Start	7340	End	7807
GI	5004920	Score	347
Exons	7340..7365, 7453..7548, 7722..7807		

Seq. No.	44966	Seq. ID	OJ000321_18.0413.C17
Gene No.	94926	Strand	+
Start	169	End	273
Name	OJ000321_18.0413.C17.o1.gs	Method	GENSCAN
Start	169	End	273
GI	none	Score	.52
Exons	169..273		

Seq. No.	44967	Seq. ID	OJ000321_18.0413.C18
Gene No.	94927	Strand	+
Start	1177	End	5311
Name	OJ000321_18.0413.C18.o1.np	Method	AAT/NAP
Start	1177	End	5311
GI	7106512	Score	78
Exons	1177..1241, 5222..5311		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	44967	Seq. ID	OJ000321_18.0413.C18
Gene No.	94927	Strand	+
Start	1177	End	5311
Name	OJ000321_18.0413.C18.o1.gs	Method	GENSCAN
Start	2250	End	2484
GI	none	Score	.69
Exons	2250..2257, 2412..2484		

Seq. No.	44967	Seq. ID	OJ000321_18.0413.C18
Gene No.	94928	Strand	-
Start	3432	End	5136
Name	OJ000321_18.0413.C18.o2.gs	Method	GENSCAN
Start	3432	End	5136
GI	none	Score	.98
Exons	3432..3876, 3931..4216, 5055..5136		

Seq. No.	44967	Seq. ID	OJ000321_18.0413.C18
Gene No.	94928	Strand	-
Start	3432	End	5136
Name	OJ000321_18.0413.C18.o2.np	Method	AAT/NAP
Start	3714	End	5075
GI	5852179	Score	264
Exons	3714..3945, 4020..4228, 5055..5075		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		

Seq. No.	44967	Seq. ID	OJ000321_18.0413.C18
Gene No.	94929	Strand	-
Start	6237	End	6582
Name	OJ000321_18.0413.C18.o3.np	Method	AAT/NAP
Start	6237	End	6582



GI 6063554 Score 111  
 Exons 6237..6408, 6512..6582  
 GI Descrip. (AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464)  
 correspond to a region of the predicted gene.; hypothetical  
 protein [Oryza sativa]

Seq. No. 44968 Seq. ID OJ000321\_18.0413.C19  
 Gene No. 94930 Strand +  
 Start 490 End 6154  
 Name OJ000321\_18.0413.C19.o1.gs Method GENSCAN  
 Start 490 End 5984  
 GI none Score .53  
 Exons 490..1183, 1207..1355, 1670..2144, 2310..2867, 3106..4064,  
 4191..5027, 5385..5984

Seq. No. 44968 Seq. ID OJ000321\_18.0413.C19  
 Gene No. 94930 Strand +  
 Start 490 End 6154  
 Name OJ000321\_18.0413.C19.o1.np Method AAT/NAP  
 Start 1670 End 6154  
 GI 4680179 Score 7625  
 Exons 1670..6154  
 GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No. 44968 Seq. ID OJ000321\_18.0413.C19  
 Gene No. 94930 Strand +  
 Start 490 End 6154  
 Name OJ000321\_18.0413.C19.o7.tw Method TBLASTX:Wheat  
 Start 1933 End 2296  
 GI none Score 304  
 Exons 1933..2037, 1937..2296, 2062..2295

Seq. No. 44968 Seq. ID OJ000321\_18.0413.C19  
 Gene No. 94930 Strand +  
 Start 490 End 6154  
 Name OJ000321\_18.0413.C19.o6.tm Method TBLASTX:Maize  
 Start 2176 End 2509  
 GI none Score 209  
 Exons 2176..2364, 2177..2509, 2177..2461

Seq. No. 44968 Seq. ID OJ000321\_18.0413.C19  
 Gene No. 94930 Strand +  
 Start 490 End 6154  
 Name OJ000321\_18.0413.C19.o8.tw Method TBLASTX:Wheat  
 Start 2816 End 3233  
 GI none Score 113  
 Exons 2816..2932, 2866..2946, 2931..3011, 3051..3233, 3077..3232

Seq. No. 44968 Seq. ID OJ000321\_18.0413.C19  
 Gene No. 94930 Strand +  
 Start 490 End 6154  
 Name OJ000321\_18.0413.C19.o4.tw Method TBLASTX:Wheat  
 Start 3396 End 3878  
 GI none Score 529  
 Exons 3396..3878, 3500..3835, 3507..3836

Seq. No. 44968 Seq. ID OJ000321\_18.0413.C19

Gene No.	94930	Strand	+
Start	490	End	6154
Name	OJ000321_18.0413.C19.o5.tm	Method	TBLASTX:Maize
Start	3408	End	3697
GI	none	Score	302
Exons	3408..3695, 3506..3697		
Seq. No.	44968	Seq. ID	OJ000321_18.0413.C19
Gene No.	94930	Strand	+
Start	490	End	6154
Name	OJ000321_18.0413.C19.o4.tm	Method	TBLASTX:Maize
Start	3765	End	4265
GI	none	Score	161
Exons	3765..3944, 3930..4265, 4016..4057, 4017..4220, 4172..4222		
Seq. No.	44968	Seq. ID	OJ000321_18.0413.C19
Gene No.	94930	Strand	+
Start	490	End	6154
Name	OJ000321_18.0413.C19.o1.ts	Method	TBLASTX:Soybean
Start	3819	End	4214
GI	none	Score	57
Exons	3819..3851, 3819..3863, 3855..4214, 3855..3935, 3950..4213		
Seq. No.	44968	Seq. ID	OJ000321_18.0413.C19
Gene No.	94930	Strand	+
Start	490	End	6154
Name	OJ000321_18.0413.C19.o5.tw	Method	TBLASTX:Wheat
Start	3927	End	4229
GI	none	Score	382
Exons	3927..4229, 3928..4029, 3947..4228		
Seq. No.	44968	Seq. ID	OJ000321_18.0413.C19
Gene No.	94930	Strand	+
Start	490	End	6154
Name	OJ000321_18.0413.C19.o2.tw	Method	TBLASTX:Wheat
Start	4230	End	4739
GI	none	Score	623
Exons	4230..4739, 4262..4573, 4308..4655		
Seq. No.	44968	Seq. ID	OJ000321_18.0413.C19
Gene No.	94930	Strand	+
Start	490	End	6154
Name	OJ000321_18.0413.C19.o3.ts	Method	TBLASTX:Soybean
Start	4254	End	4481
GI	none	Score	198
Exons	4254..4481		
Seq. No.	44968	Seq. ID	OJ000321_18.0413.C19
Gene No.	94930	Strand	+
Start	490	End	6154
Name	OJ000321_18.0413.C19.o2.tm	Method	TBLASTX:Maize
Start	4302	End	4667
GI	none	Score	488
Exons	4302..4655, 4304..4570, 4356..4667, 4463..4660		
Seq. No.	44968	Seq. ID	OJ000321_18.0413.C19
Gene No.	94930	Strand	+

Start	490	End	6154
Name	OJ000321_18.0413.C19.o3.tw	Method	TBLASTX:Wheat
Start	4743	End	5222
GI	none	Score	576
Exons	4743..5222, 4776..5216, 4967..5221		

Seq. No.	44968	Seq. ID	OJ000321_18.0413.C19
Gene No.	94930	Strand	+
Start	490	End	6154
Name	OJ000321_18.0413.C19.o1.tc	Method	TBLASTX:Cress
Start	4929	End	5246
GI	none	Score	84
Exons	4929..5102, 5103..5246, 5105..5245		

Seq. No.	44968	Seq. ID	OJ000321_18.0413.C19
Gene No.	94930	Strand	+
Start	490	End	6154
Name	OJ000321_18.0413.C19.o2.ts	Method	TBLASTX:Soybean
Start	5010	End	5270
GI	none	Score	288
Exons	5010..5270, 5015..5269		

Seq. No.	44968	Seq. ID	OJ000321_18.0413.C19
Gene No.	94930	Strand	+
Start	490	End	6154
Name	OJ000321_18.0413.C19.o3.tm	Method	TBLASTX:Maize
Start	5069	End	5360
GI	none	Score	385
Exons	5069..5356, 5070..5360		

Seq. No.	44968	Seq. ID	OJ000321_18.0413.C19
Gene No.	94930	Strand	+
Start	490	End	6154
Name	OJ000321_18.0413.C19.o1.tw	Method	TBLASTX:Wheat
Start	5229	End	5855
GI	none	Score	726
Exons	5229..5855, 5231..5854		

Seq. No.	44968	Seq. ID	OJ000321_18.0413.C19
Gene No.	94930	Strand	+
Start	490	End	6154
Name	OJ000321_18.0413.C19.o1.tm	Method	TBLASTX:Maize
Start	5409	End	6008
GI	none	Score	223
Exons	5409..5570, 5417..5563, 5568..6008, 5570..5995		

Seq. No.	44968	Seq. ID	OJ000321_18.0413.C19
Gene No.	94930	Strand	+
Start	490	End	6154
Name	OJ000321_18.0413.C19.o6.tw	Method	TBLASTX:Wheat
Start	5855	End	6154
GI	none	Score	339
Exons	5855..6154, 5856..6152		

Seq. No.	44969	Seq. ID	OJ000321_18.0413.C20
Gene No.	94931	Strand	-
Start	1	End	1114

Name	OJ000321_18.0413.C20.o1.np	Method	AAT/NAP
Start	1	End	1114
GI	5295955	Score	223
Exons	1..501, 699..1114		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	44970	Seq. ID	OJ000321_18.0413.C23
Gene No.	94932	Strand	-
Start	238	End	711
Name	OJ000321_18.0413.C23.o1.gs	Method	GENSCAN
Start	238	End	711
GI	none	Score	.95
Exons	238..414, 610..711		

Seq. No.	44971	Seq. ID	OJ000221_17.0407.C3
Gene No.	94933	Strand	+
Start	1659	End	2701
Name	OJ000221_17.0407.C3.o1.np	Method	AAT/NAP
Start	1659	End	2701
GI	6815053	Score	334
Exons	1659..1831, 2231..2377, 2442..2701		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	44971	Seq. ID	OJ000221_17.0407.C3
Gene No.	94934	Strand	-
Start	495	End	2727
Name	OJ000221_17.0407.C3.o1.gs	Method	GENSCAN
Start	495	End	2727
GI	none	Score	.51
Exons	495..505, 870..1219, 1293..1365, 1380..1466, 2670..2727		

Seq. No.	44972	Seq. ID	OJ000221_17.0407.C4
Gene No.	94935	Strand	-
Start	1	End	3421
Name	OJ000221_17.0407.C4.o1.np	Method	AAT/NAP
Start	1	End	3421
GI	6705984	Score	295
Exons	1..58, 751..1415, 3212..3421		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	44972	Seq. ID	OJ000221_17.0407.C4
Gene No.	94935	Strand	-
Start	1	End	3421
Name	OJ000221_17.0407.C4.o1.tw	Method	TBLASTX:Wheat
Start	788	End	1049
GI	none	Score	163
Exons	788..1036, 789..1043, 798..1049		

Seq. No.	44972	Seq. ID	OJ000221_17.0407.C4
Gene No.	94935	Strand	-
Start	1	End	3421
Name	OJ000221_17.0407.C4.o1.tm	Method	TBLASTX:Maize
Start	813	End	1013
GI	none	Score	208
Exons	813..1013		

Seq. No.	44972	Seq. ID	OJ000221_17.0407.C4
Gene No.	94935	Strand	-
Start	1	End	3421
Name	OJ000221_17.0407.C4.o1.ts	Method	TBLASTX:Soybean
Start	813	End	1013
GI	none	Score	209
Exons	813..1013		

Seq. No.	44972	Seq. ID	OJ000221_17.0407.C4
Gene No.	94935	Strand	-
Start	1	End	3421
Name	OJ000221_17.0407.C4.o2.np	Method	AAT/NAP
Start	1824	End	3421
GI	6498423	Score	120
Exons	1824..2144, 2982..3123, 3317..3421		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	44973	Seq. ID	OJ000221_17.0407.C5
Gene No.	94936	Strand	+
Start	111	End	9255
Name	OJ000221_17.0407.C5.o1.gs	Method	GENSCAN
Start	111	End	9255
GI	none	Score	.64
Exons	111..272, 417..2399, 2471..2975, 3307..3380, 4123..4212, 4284..4502, 4548..4670, 4750..4850, 4929..4981, 5075..5260, 5794..5840, 8043..8165, 8578..8854, 9068..9255		

Seq. No.	44973	Seq. ID	OJ000221_17.0407.C5
Gene No.	94936	Strand	+
Start	111	End	9255
Name	OJ000221_17.0407.C5.o2.np	Method	AAT/NAP
Start	3329	End	5789
GI	4914371	Score	710
Exons	3329..3543, 3867..3992, 4087..4212, 4284..4448, 4572..4670, 4750..4850, 4929..4981, 5075..5260, 5668..5789		
GI Descrip.	(AC007584) unknown protein [Arabidopsis thaliana]		

Seq. No.	44973	Seq. ID	OJ000221_17.0407.C5
Gene No.	94936	Strand	+
Start	111	End	9255
Name	OJ000221_17.0407.C5.o1.gp	Method	AAT/GAP
Start	4069	End	4598
GI	uC-osflcyp099a10b1	Score	681
Exons	4069..4212, 4284..4598		
GI Descrip.	'4836897/gb AAD30600.1 AC007369_10 1.0e-08 (AC007369) Hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	44973	Seq. ID	OJ000221_17.0407.C5
Gene No.	94936	Strand	+
Start	111	End	9255
Name	OJ000221_17.0407.C5.o3.np	Method	AAT/NAP
Start	5637	End	6942
GI	6815099	Score	98
Exons	5637..5668, 6824..6942		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	44973	Seq. ID	OJ000221_17.0407.C5
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Gene No.	94937	Strand	+
Start	14039	End	14166
Name	OJ000221_17.0407.C5.o4.gs	Method	GENSCAN
Start	14039	End	14166
GI	none	Score	.88
Exons	14039..14166		

Seq. No.	44973	Seq. ID	OJ000221_17.0407.C5
Gene No.	94938	Strand	-
Start	10078	End	11237
Name	OJ000221_17.0407.C5.o1.ts	Method	TBLASTX:Soybean
Start	594	End	2746
GI	none	Score	257
Exons	594..1385, 702..1571, 747..872, 843..1004, 882..1793, 1023..1490, 1026..1886, 1142..1258, 1143..1988, 1148..1372, 1173..1355, 1248..2102, 1377..1550, 1418..1708, 1446..2318, 1557..2339, 1661..1897, 1665..2390, 1700..1897, 1761..2390, 1836..2393, 2036..2338, 2399..2506, 2516..2746, 2525..2710		

Seq. No.	44973	Seq. ID	OJ000221_17.0407.C5
Gene No.	94938	Strand	-
Start	10078	End	11237
Name	OJ000221_17.0407.C5.o1.tc	Method	TBLASTX:Cress
Start	648	End	2767
GI	none	Score	177
Exons	648..1166, 801..1382, 1002..1586, 1107..1694, 1212..1799, 1314..1901, 1422..2012, 1524..2114, 1632..2219, 1749..2321, 1863..2399, 1953..2390, 2033..2302, 2051..2338, 2525..2767		

Seq. No.	44973	Seq. ID	OJ000221_17.0407.C5
Gene No.	94938	Strand	-
Start	10078	End	11237
Name	OJ000221_17.0407.C5.o2.tm	Method	TBLASTX:Maize
Start	648	End	3070
GI	none	Score	241
Exons	648..1253, 648..944, 720..1319, 825..1460, 948..1568, 1034..1657, 1035..1679, 1146..1775, 1245..1883, 1356..1994, 1455..2087, 1560..2195, 1589..1882, 1607..1897, 1641..1793, 1674..2300, 1770..2390, 2030..2368, 2036..2296, 2190..2393, 2798..3070		

Seq. No.	44973	Seq. ID	OJ000221_17.0407.C5
Gene No.	94938	Strand	-
Start	10078	End	11237
Name	OJ000221_17.0407.C5.o2.ts	Method	TBLASTX:Soybean
Start	3868	End	5777
GI	none	Score	144
Exons	3868..3999, 3869..3997, 4080..4151, 4082..4147, 4159..4215, 4768..4878, 5062..5271, 5125..5256, 5139..5264, 5667..5777		

Seq. No.	44973	Seq. ID	OJ000221_17.0407.C5
Gene No.	94938	Strand	-
Start	10078	End	11237
Name	OJ000221_17.0407.C5.o1.tm	Method	TBLASTX:Maize
Start	3899	End	4968
GI	none	Score	172
Exons	3899..4042, 3901..3999, 4080..4151, 4082..4150, 4150..4215,		

4152..4211, 4269..4331, 4286..4330, 4323..4484, 4353..4499,  
 4414..4470, 4547..4609, 4548..4601, 4594..4671, 4604..4669,  
 4605..4673, 4749..4850, 4749..4850, 4750..4851, 4930..4968,  
 4932..4967

Seq. No.	44973	Seq. ID	OJ000221_17.0407.C5
Gene No.	94938	Strand	-
Start	10078	End	11237
Name	OJ000221_17.0407.C5.o2.gs	Method	GENSCAN
Start	10078	End	11237
GI	none	Score	.52
Exons	10078..10285, 10644..10695, 11189..11237		

Seq. No.	44974	Seq. ID	OJ000221_17.0407.C6
Gene No.	94939	Strand	-
Start	1	End	3511
Name	OJ000221_17.0407.C6.o1.np	Method	AAT/NAP
Start	1	End	1931
GI	7487565	Score	59
Exons	1..48, 1118..1188, 1800..1931		
GI Descrip.	hypothetical protein T30B22.18 - Arabidopsis thaliana gi 2529675 gb AAC62858.1  (AC002535) putative AP2 domain transcription factor [Arabidopsis thaliana]		

Seq. No.	44974	Seq. ID	OJ000221_17.0407.C6
Gene No.	94939	Strand	-
Start	1	End	3511
Name	OJ000221_17.0407.C6.o2.gs	Method	GENSCAN
Start	1703	End	3475
GI	none	Score	.77
Exons	1703..1849, 2366..2404, 2982..3073, 3382..3475		

Seq. No.	44974	Seq. ID	OJ000221_17.0407.C6
Gene No.	94939	Strand	-
Start	1	End	3511
Name	OJ000221_17.0407.C6.o2.np	Method	AAT/NAP
Start	2935	End	3090
GI	7340920	Score	96
Exons	2935..3090		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	44974	Seq. ID	OJ000221_17.0407.C6
Gene No.	94939	Strand	-
Start	1	End	3511
Name	OJ000221_17.0407.C6.o3.np	Method	AAT/NAP
Start	3360	End	3511
GI	6006359	Score	68
Exons	3360..3511		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	44975	Seq. ID	OJ000221_17.0407.C7
Gene No.	94940	Strand	-
Start	792	End	9135
Name	OJ000221_17.0407.C7.o1.np	Method	AAT/NAP
Start	627	End	9135
GI	5305740	Score	1595
Exons	627..764, 858..920, 1117..1233, 1671..1793, 1874..1966,		

2048..2167, 2370..2486, 2850..2945, 3041..3190, 3528..3682,  
8285..8325, 8415..8497, 8623..8873, 8997..9135  
GI Descrip. (AF135862) precursor monofunctional aspartokinase [Glycine max]

Seq. No.	44975	Seq. ID	OJ000221_17.0407.C7
Gene No.	94940	Strand	-
Start	792	End	9135
Name	OJ000221_17.0407.C7.o1.gs	Method	GENSCAN
Start	792	End	4847
GI	none	Score	.65
Exons	792..920, 1117..1257, 1874..1966, 2370..2486, 2850..2945, 3041..3190, 3528..3682, 4352..4465, 4643..4847		

Seq. No.	44975	Seq. ID	OJ000221_17.0407.C7
Gene No.	94940	Strand	-
Start	792	End	9135
Name	OJ000221_17.0407.C7.o2.gs	Method	GENSCAN
Start	6731	End	9036
GI	none	Score	.87
Exons	6731..6844, 6932..7067, 7490..7595, 8285..8325, 8415..8497, 8623..9036		

Seq. No.	44975	Seq. ID	OJ000221_17.0407.C7
Gene No.	94941	Strand	-
Start	13738	End	16425
Name	OJ000221_17.0407.C7.o8.tm	Method	TBLASTX:Maize
Start	590	End	1236
GI	none	Score	64
Exons	590..664, 597..665, 660..767, 664..765, 823..921, 831..923, 855..929, 1088..1231, 1117..1236, 1117..1233		

Seq. No.	44975	Seq. ID	OJ000221_17.0407.C7
Gene No.	94941	Strand	-
Start	13738	End	16425
Name	OJ000221_17.0407.C7.o5.tw	Method	TBLASTX:Wheat
Start	663	End	1727
GI	none	Score	148
Exons	663..767, 664..765, 672..767, 823..921, 825..929, 847..921, 849..923, 1115..1234, 1117..1236, 1118..1204, 1670..1717, 1675..1722, 1675..1722, 1677..1724, 1677..1727		

Seq. No.	44975	Seq. ID	OJ000221_17.0407.C7
Gene No.	94941	Strand	-
Start	13738	End	16425
Name	OJ000221_17.0407.C7.o1.ts	Method	TBLASTX:Soybean
Start	664	End	8799
GI	none	Score	110
Exons	664..765, 687..767, 823..930, 849..923, 1072..1236, 1094..1204, 1675..1794, 1677..1778, 1871..1951, 1871..1969, 1872..1964, 2048..2170, 2048..2167, 2049..2171, 2361..2441, 2361..2486, 2362..2490, 2362..2487, 2366..2491, 2826..2939, 2833..2940, 3005..3184, 3039..3191, 3040..3189, 3041..3193, 3042..3191, 3085..3219, 3468..3620, 3504..3689, 3532..3675, 3565..3690, 8286..8327, 8418..8504, 8420..8497, 8622..8684, 8623..8799, 8627..8767		

Seq. No.	44975	Seq. ID	OJ000221_17.0407.C7
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Gene No.	94941	Strand	-
Start	13738	End	16425
Name	OJ000221_17.0407.C7.o2.tc	Method	TBLASTX:Cress
Start	687	End	8802
GI	none	Score	91
Exons	687..767, 688..765, 823..912, 849..923, 1114..1233, 1115..1204, 1671..1778, 1680..1778, 1684..1794, 1871..1969, 1872..1964, 2048..2167, 2049..2168, 2361..2486, 2362..2487, 2369..2488, 2814..2948, 2826..2945, 2833..2949, 3041..3193, 3042..3191, 3504..3668, 3529..3675, 8418..8504, 8420..8497, 8626..8802, 8627..8773		

Seq. No.	44975	Seq. ID	OJ000221_17.0407.C7
Gene No.	94941	Strand	-
Start	13738	End	16425
Name	OJ000221_17.0407.C7.o2.tm	Method	TBLASTX:Maize
Start	1601	End	8327
GI	none	Score	127
Exons	1601..1795, 1645..1830, 1653..1778, 1859..1969, 1867..1941, 1871..1969, 2048..2167, 2049..2168, 2361..2486, 2363..2488, 2366..2491, 2843..2950, 2845..2946, 2846..2947, 3029..3184, 3039..3191, 3041..3193, 3042..3191, 3468..3620, 3504..3689, 3532..3684, 8283..8327		

Seq. No.	44975	Seq. ID	OJ000221_17.0407.C7
Gene No.	94941	Strand	-
Start	13738	End	16425
Name	OJ000221_17.0407.C7.o5.tm	Method	TBLASTX:Maize
Start	8622	End	9118
GI	none	Score	77
Exons	8622..8699, 8623..8808, 8624..8791, 8892..8993, 8894..9067, 9059..9118		

Seq. No.	44975	Seq. ID	OJ000221_17.0407.C7
Gene No.	94941	Strand	-
Start	13738	End	16425
Name	OJ000221_17.0407.C7.o6.tm	Method	TBLASTX:Maize
Start	13645	End	13884
GI	none	Score	127
Exons	13645..13683, 13696..13884, 13697..13882		

Seq. No.	44975	Seq. ID	OJ000221_17.0407.C7
Gene No.	94941	Strand	-
Start	13738	End	16425
Name	OJ000221_17.0407.C7.o2.np	Method	AAT/NAP
Start	13738	End	16425
GI	6705984	Score	3377
Exons	13738..15939, 16383..16425		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	44975	Seq. ID	OJ000221_17.0407.C7
Gene No.	94941	Strand	-
Start	13738	End	16425
Name	OJ000221_17.0407.C7.o4.tm	Method	TBLASTX:Maize
Start	13886	End	14160
GI	none	Score	265
Exons	13886..14158, 13888..14160		

Seq. No.	44975	Seq. ID	OJ000221_17.0407.C7
Gene No.	94941	Strand	-
Start	13738	End	16425
Name	OJ000221_17.0407.C7.o2.tw	Method	TBLASTX:Wheat
Start	13927	End	14325
GI	none	Score	459
Exons	13927..14325, 13937..14323		

Seq. No.	44975	Seq. ID	OJ000221_17.0407.C7
Gene No.	94941	Strand	-
Start	13738	End	16425
Name	OJ000221_17.0407.C7.o7.tm	Method	TBLASTX:Maize
Start	14164	End	14457
GI	none	Score	222
Exons	14164..14457		

Seq. No.	44975	Seq. ID	OJ000221_17.0407.C7
Gene No.	94941	Strand	-
Start	13738	End	16425
Name	OJ000221_17.0407.C7.o3.tw	Method	TBLASTX:Wheat
Start	14356	End	14715
GI	none	Score	320
Exons	14356..14715, 14366..14710		

Seq. No.	44975	Seq. ID	OJ000221_17.0407.C7
Gene No.	94941	Strand	-
Start	13738	End	16425
Name	OJ000221_17.0407.C7.o5.ts	Method	TBLASTX:Soybean
Start	14392	End	14750
GI	none	Score	46
Exons	14392..14562, 14519..14575, 14581..14646, 14587..14661, 14688..14750		

Seq. No.	44975	Seq. ID	OJ000221_17.0407.C7
Gene No.	94941	Strand	-
Start	13738	End	16425
Name	OJ000221_17.0407.C7.o1.tm	Method	TBLASTX:Maize
Start	14460	End	14808
GI	none	Score	301
Exons	14460..14798, 14464..14808, 14465..14776, 14466..14798, 14467..14805		

Seq. No.	44975	Seq. ID	OJ000221_17.0407.C7
Gene No.	94941	Strand	-
Start	13738	End	16425
Name	OJ000221_17.0407.C7.o1.tc	Method	TBLASTX:Cress
Start	14527	End	14892
GI	none	Score	194
Exons	14527..14892, 14528..14752, 14530..14820		

Seq. No.	44975	Seq. ID	OJ000221_17.0407.C7
Gene No.	94941	Strand	-
Start	13738	End	16425
Name	OJ000221_17.0407.C7.o1.tw	Method	TBLASTX:Wheat
Start	14842	End	15268
GI	none	Score	518

Exons	14842..15267, 14843..15268, 14843..15268		
Seq. No.	44975	Seq. ID	OJ000221_17.0407.C7
Gene No.	94941	Strand	-
Start	13738	End	16425
Name	OJ000221_17.0407.C7.o9.tm	Method	TBLASTX:Maize
Start	14888	End	15063
GI	none	Score	111
Exons	14888..15061, 14893..15063, 14899..15063		

Seq. No.	44975	Seq. ID	OJ000221_17.0407.C7
Gene No.	94941	Strand	-
Start	13738	End	16425
Name	OJ000221_17.0407.C7.o4.ts	Method	TBLASTX:Soybean
Start	14984	End	15183
GI	none	Score	69
Exons	14984..15073, 14989..15075, 15071..15169, 15079..15183		

Seq. No.	44975	Seq. ID	OJ000221_17.0407.C7
Gene No.	94941	Strand	-
Start	13738	End	16425
Name	OJ000221_17.0407.C7.o2.ts	Method	TBLASTX:Soybean
Start	15188	End	15444
GI	none	Score	196
Exons	15188..15418, 15190..15444, 15193..15441		

Seq. No.	44975	Seq. ID	OJ000221_17.0407.C7
Gene No.	94941	Strand	-
Start	13738	End	16425
Name	OJ000221_17.0407.C7.o3.tm	Method	TBLASTX:Maize
Start	15205	End	15708
GI	none	Score	132
Exons	15205..15708, 15287..15667		

Seq. No.	44975	Seq. ID	OJ000221_17.0407.C7
Gene No.	94941	Strand	-
Start	13738	End	16425
Name	OJ000221_17.0407.C7.o4.tw	Method	TBLASTX:Wheat
Start	15355	End	15756
GI	none	Score	125
Exons	15355..15756, 15428..15709		

Seq. No.	44975	Seq. ID	OJ000221_17.0407.C7
Gene No.	94941	Strand	-
Start	13738	End	16425
Name	OJ000221_17.0407.C7.o3.ts	Method	TBLASTX:Soybean
Start	15469	End	15828
GI	none	Score	115
Exons	15469..15828, 15479..15709		

Seq. No.	44976	Seq. ID	OJ000221_17.0407.C8
Gene No.	94942	Strand	+
Start	2068	End	2418
Name	OJ000221_17.0407.C8.o2.gs	Method	GENSCAN
Start	2068	End	2418
GI	none	Score	.71
Exons	2068..2418		

Seq. No.	44976	Seq. ID	OJ000221_17.0407.C8
Gene No.	94943	Strand	+
Start	3701	End	5192
Name	OJ000221_17.0407.C8.o3.gs	Method	GENSCAN
Start	3701	End	5192
GI	none	Score	.79
Exons	3701..3873, 5099..5192		

Seq. No.	44976	Seq. ID	OJ000221_17.0407.C8
Gene No.	94944	Strand	+
Start	5459	End	5783
Name	OJ000221_17.0407.C8.o1.gp	Method	AAT/GAP
Start	5459	End	5783
GI	none	Score	564
Exons	5459..5783		

Seq. No.	44976	Seq. ID	OJ000221_17.0407.C8
Gene No.	94945	Strand	-
Start	107	End	1553
Name	OJ000221_17.0407.C8.o1.gs	Method	GENSCAN
Start	107	End	1553
GI	none	Score	.59
Exons	107..1047, 1498..1553		

Seq. No.	44976	Seq. ID	OJ000221_17.0407.C8
Gene No.	94946	Strand	-
Start	5682	End	12165
Name	OJ000221_17.0407.C8.o1.np	Method	AAT/NAP
Start	5682	End	12165
GI	3775989	Score	1309
Exons	5682..5774, 6086..6178, 6267..6431, 7181..7274, 7361..7429, 7959..8083, 8175..8260, 8733..8811, 10724..10804, 11100..11207, 11817..11941, 12057..12165		
GI Descrip.	(AJ010458) RNA helicase [Arabidopsis thaliana]		

Seq. No.	44976	Seq. ID	OJ000221_17.0407.C8
Gene No.	94946	Strand	-
Start	5682	End	12165
Name	OJ000221_17.0407.C8.o4.gs	Method	GENSCAN
Start	5682	End	12165
GI	none	Score	.93
Exons	5682..5774, 6086..6178, 6267..6431, 7181..7274, 7959..8083, 8175..8210, 10724..10804, 11100..11207, 11817..11941, 12057..12165		

Seq. No.	44976	Seq. ID	OJ000221_17.0407.C8
Gene No.	94946	Strand	-
Start	5682	End	12165
Name	OJ000221_17.0407.C8.o2.gp	Method	AAT/GAP
Start	8762	End	9283
GI	uC-osflcyp012b07b1	Score	1040
Exons	8762..9283		
GI Descrip.	'3646/emb X57278 SCDED1 2.0e-09 S.cerevisiae DED1 (SPP81) gene for putative ATP-dependent RNA helicase Dedlp (Spp8lp)'		

Seq. No.	44976	Seq. ID	OJ000221_17.0407.C8
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Gene No.	94947	Strand	-
Start	12093	End	12318
Name	OJ000221_17.0407.C8.o2.ts	Method	TBLASTX:Soybean
Start	621	End	1141
GI	none	Score	65
Exons	621..953, 1019..1141		

Seq. No.	44976	Seq. ID	OJ000221_17.0407.C8
Gene No.	94947	Strand	-
Start	12093	End	12318
Name	OJ000221_17.0407.C8.o1.tc	Method	TBLASTX:Cress
Start	5685	End	12165
GI	none	Score	78
Exons	5685..5777, 5704..5775, 6081..6179, 6084..6179, 6086..6181, 6261..6428, 6268..6429, 7178..7276, 7179..7277, 7360..7431, 7958..8083, 7968..8084, 8172..8258, 8172..8261, 8173..8262, 8173..8262, 8174..8275, 8740..8811, 10722..10805, 10736..10804, 11095..11211, 11100..11207, 11811..11876, 11892..11942, 12055..12165, 12056..12160		

Seq. No.	44976	Seq. ID	OJ000221_17.0407.C8
Gene No.	94947	Strand	-
Start	12093	End	12318
Name	OJ000221_17.0407.C8.o1.tw	Method	TBLASTX:Wheat
Start	6265	End	6428
GI	none	Score	112
Exons	6265..6426, 6270..6428		

Seq. No.	44976	Seq. ID	OJ000221_17.0407.C8
Gene No.	94947	Strand	-
Start	12093	End	12318
Name	OJ000221_17.0407.C8.o1.ts	Method	TBLASTX:Soybean
Start	6280	End	11202
GI	none	Score	141
Exons	6280..6402, 6280..6399, 6282..6404, 6406..6438, 7178..7273, 7182..7274, 7366..7431, 7370..7432, 7964..8083, 7967..8083, 7968..8087, 8161..8259, 8172..8270, 8173..8262, 8178..8267, 8734..8811, 10715..10804, 10722..10805, 10736..10804, 11095..11202, 11100..11201		

Seq. No.	44976	Seq. ID	OJ000221_17.0407.C8
Gene No.	94947	Strand	-
Start	12093	End	12318
Name	OJ000221_17.0407.C8.o1.tm	Method	TBLASTX:Maize
Start	6312	End	8232
GI	none	Score	105
Exons	6312..6431, 6312..6428, 6313..6462, 7178..7297, 7182..7277, 7196..7291, 7359..7427, 7360..7434, 7361..7432, 7959..8087, 7961..8083, 8172..8231, 8173..8232		

Seq. No.	44976	Seq. ID	OJ000221_17.0407.C8
Gene No.	94947	Strand	-
Start	12093	End	12318
Name	OJ000221_17.0407.C8.o3.gp	Method	AAT/GAP
Start	12093	End	12318
GI	none	Score	444
Exons	12093..12318		

Seq. No.	44977	Seq. ID	OJ000221_17.0407.C9
Gene No.	94948	Strand	+
Start	1838	End	4872
Name	OJ000221_17.0407.C9.o1.gs	Method	GENSCAN
Start	1838	End	4872
GI	none	Score	.75
Exons	1838..1853, 2488..2521, 3198..3222, 3963..4027, 4315..4438, 4550..4636, 4705..4872		

Seq. No.	44977	Seq. ID	OJ000221_17.0407.C9
Gene No.	94949	Strand	+
Start	5113	End	15501
Name	OJ000221_17.0407.C9.o2.np	Method	AAT/NAP
Start	5113	End	7387
GI	6721516	Score	494
Exons	5113..5359, 5767..6082, 7191..7387		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	44977	Seq. ID	OJ000221_17.0407.C9
Gene No.	94949	Strand	+
Start	5113	End	15501
Name	OJ000221_17.0407.C9.o3.np	Method	AAT/NAP
Start	5287	End	15501
GI	7523686	Score	240
Exons	5287..5434, 7884..7949, 9127..9747, 15472..15501		
GI Descrip.	(AC009526) Similar to Athila ORF 1 [Arabidopsis thaliana]		

Seq. No.	44977	Seq. ID	OJ000221_17.0407.C9
Gene No.	94949	Strand	+
Start	5113	End	15501
Name	OJ000221_17.0407.C9.o4.np	Method	AAT/NAP
Start	10959	End	12497
GI	6907087	Score	431
Exons	10959..11345, 11379..11854, 12396..12497		
GI Descrip.	(AP001129) ESTs C72771(E2215), AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	44977	Seq. ID	OJ000221_17.0407.C9
Gene No.	94950	Strand	-
Start	106	End	306
Name	OJ000221_17.0407.C9.o1.np	Method	AAT/NAP
Start	106	End	306
GI	6016874	Score	103
Exons	106..306		
GI Descrip.	(AP000570) ESTs C19143(E10020), D25076(R3116) correspond to a region of the predicted gene.; Similar to putative AC9 transposase. (P03010) [Oryza sativa]		

Seq. No.	44977	Seq. ID	OJ000221_17.0407.C9
Gene No.	94951	Strand	-
Start	5379	End	8202
Name	OJ000221_17.0407.C9.o2.gs	Method	GENSCAN
Start	5379	End	8202
GI	none	Score	.55
Exons	5379..5448, 5868..5955, 6015..6054, 6580..6791, 7470..7490,		

7558..7647, 7674..7781, 8196..8202

Seq. No.	44977	Seq. ID	OJ000221_17.0407.C9
Gene No.	94952	Strand	-
Start	12893	End	14842
Name	OJ000221_17.0407.C9.o1.tw	Method	TBLASTX:Wheat
Start	9213	End	9560
GI	none	Score	106
Exons	9213..9329, 9348..9560		

Seq. No.	44977	Seq. ID	OJ000221_17.0407.C9
Gene No.	94952	Strand	-
Start	12893	End	14842
Name	OJ000221_17.0407.C9.o5.np	Method	AAT/NAP
Start	12893	End	14842
GI	4680186	Score	110
Exons	12893..13120, 14790..14842		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	44977	Seq. ID	OJ000221_17.0407.C9
Gene No.	94952	Strand	-
Start	12893	End	14842
Name	OJ000221_17.0407.C9.o4.gs	Method	GENSCAN
Start	14313	End	14813
GI	none	Score	.81
Exons	14313..14478, 14674..14813		

Seq. No.	44978	Seq. ID	OJ000221_17.0407.C10
Gene No.	94953	Strand	+
Start	6883	End	10701
Name	OJ000221_17.0407.C10.o2.np	Method	AAT/NAP
Start	6883	End	10701
GI	6630696	Score	6166
Exons	6883..10701		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	44978	Seq. ID	OJ000221_17.0407.C10
Gene No.	94954	Strand	+
Start	12088	End	15855
Name	OJ000221_17.0407.C10.o4.np	Method	AAT/NAP
Start	12088	End	15855
GI	6815052	Score	2049
Exons	12088..12241, 12323..12397, 12680..12797, 13096..13195, 14059..14151, 14934..15069, 15118..15855		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	44978	Seq. ID	OJ000221_17.0407.C10
Gene No.	94955	Strand	-
Start	1	End	5434
Name	OJ000221_17.0407.C10.o1.np	Method	AAT/NAP
Start	1	End	3372
GI	4262151	Score	452
Exons	1..122, 1917..2028, 2227..2434, 2662..2887, 3231..3372		
GI Descrip.	(AC005275) putative receptor kinase [Arabidopsis thaliana] gi 7270193 emb CAB77808.1  (AL161496) putative receptor kinase		

[Arabidopsis thaliana]

Seq. No.	44978	Seq. ID	OJ000221_17.0407.C10
Gene No.	94955	Strand	-
Start	1	End	5434
Name	OJ000221_17.0407.C10.o1.gs	Method	GENSCAN
Start	33	End	5434
GI	none	Score	.7
Exons	33..83, 1896..2028, 2227..2446, 2674..2887, 3231..3364, 3486..3602, 5305..5434		

Seq. No.	44978	Seq. ID	OJ000221_17.0407.C10
Gene No.	94956	Strand	-
Start	5775	End	6443
Name	OJ000221_17.0407.C10.o2.gs	Method	GENSCAN
Start	5775	End	6443
GI	none	Score	.63
Exons	5775..5867, 5940..6026, 6073..6159, 6206..6350, 6394..6443		

Seq. No.	44978	Seq. ID	OJ000221_17.0407.C10
Gene No.	94957	Strand	-
Start	11568	End	13297
Name	OJ000221_17.0407.C10.o6.tm	Method	TBLASTX:Maize
Start	2325	End	2896
GI	none	Score	81
Exons	2325..2402, 2675..2851, 2675..2851, 2840..2896		

Seq. No.	44978	Seq. ID	OJ000221_17.0407.C10
Gene No.	94957	Strand	-
Start	11568	End	13297
Name	OJ000221_17.0407.C10.o2.tc	Method	TBLASTX:Cress
Start	2334	End	3317
GI	none	Score	60
Exons	2334..2447, 2675..2818, 2745..2822, 2840..2896, 3231..3317		

Seq. No.	44978	Seq. ID	OJ000221_17.0407.C10
Gene No.	94957	Strand	-
Start	11568	End	13297
Name	OJ000221_17.0407.C10.o7.tw	Method	TBLASTX:Wheat
Start	2334	End	2893
GI	none	Score	76
Exons	2334..2447, 2675..2851, 2693..2839, 2831..2893		

Seq. No.	44978	Seq. ID	OJ000221_17.0407.C10
Gene No.	94957	Strand	-
Start	11568	End	13297
Name	OJ000221_17.0407.C10.o4.ts	Method	TBLASTX:Soybean
Start	2657	End	3323
GI	none	Score	75
Exons	2657..2827, 2742..2816, 2838..2888, 2840..2896, 3231..3323		

Seq. No.	44978	Seq. ID	OJ000221_17.0407.C10
Gene No.	94957	Strand	-
Start	11568	End	13297
Name	OJ000221_17.0407.C10.o4.tw	Method	TBLASTX:Wheat
Start	6777	End	7174
GI	none	Score	108



Exons 6777..6875, 6778..6912, 6915..7154, 6952..7173, 6992..7174

Seq. No.	44978	Seq. ID	OJ000221_17.0407.C10
Gene No.	94957	Strand	-
Start	11568	End	13297
Name	OJ000221_17.0407.C10.o5.tm	Method	TBLASTX:Maize
Start	6924	End	7233
GI	none	Score	263
Exons	6924..7154, 6949..7233, 7019..7168, 7039..7230		

Seq. No.	44978	Seq. ID	OJ000221_17.0407.C10
Gene No.	94957	Strand	-
Start	11568	End	13297
Name	OJ000221_17.0407.C10.o1.tm	Method	TBLASTX:Maize
Start	7581	End	8129
GI	none	Score	361
Exons	7581..7628, 7720..8070, 7743..8033, 8034..8129, 8062..8127		

Seq. No.	44978	Seq. ID	OJ000221_17.0407.C10
Gene No.	94957	Strand	-
Start	11568	End	13297
Name	OJ000221_17.0407.C10.o3.tm	Method	TBLASTX:Maize
Start	8245	End	8679
GI	none	Score	287
Exons	8245..8679, 8496..8672		

Seq. No.	44978	Seq. ID	OJ000221_17.0407.C10
Gene No.	94957	Strand	-
Start	11568	End	13297
Name	OJ000221_17.0407.C10.o6.tw	Method	TBLASTX:Wheat
Start	8322	End	8514
GI	none	Score	257
Exons	8322..8513, 8323..8514		

Seq. No.	44978	Seq. ID	OJ000221_17.0407.C10
Gene No.	94957	Strand	-
Start	11568	End	13297
Name	OJ000221_17.0407.C10.o3.ts	Method	TBLASTX:Soybean
Start	8467	End	8865
GI	none	Score	170
Exons	8467..8688, 8469..8684, 8692..8865		

Seq. No.	44978	Seq. ID	OJ000221_17.0407.C10
Gene No.	94957	Strand	-
Start	11568	End	13297
Name	OJ000221_17.0407.C10.o1.tw	Method	TBLASTX:Wheat
Start	8515	End	9270
GI	none	Score	881
Exons	8515..9270, 8523..9020, 8737..9027, 9079..9270		

Seq. No.	44978	Seq. ID	OJ000221_17.0407.C10
Gene No.	94957	Strand	-
Start	11568	End	13297
Name	OJ000221_17.0407.C10.o1.ts	Method	TBLASTX:Soybean
Start	9190	End	9654
GI	5509260	Score	356
Exons	9190..9654, 9285..9446, 9477..9506		

GI Descrip. -

Seq. No.	44978	Seq. ID	OJ000221_17.0407.C10
Gene No.	94957	Strand	-
Start	11568	End	13297
Name	OJ000221_17.0407.C10.o1.tc	Method	TBLASTX:Cress
Start	9283	End	9543
GI	none	Score	278
Exons	9283..9543, 9285..9455		

Seq. No.	44978	Seq. ID	OJ000221_17.0407.C10
Gene No.	94957	Strand	-
Start	11568	End	13297
Name	OJ000221_17.0407.C10.o2.tm	Method	TBLASTX:Maize
Start	9325	End	9789
GI	none	Score	329
Exons	9325..9789		

Seq. No.	44978	Seq. ID	OJ000221_17.0407.C10
Gene No.	94957	Strand	-
Start	11568	End	13297
Name	OJ000221_17.0407.C10.o3.tw	Method	TBLASTX:Wheat
Start	9325	End	9870
GI	none	Score	283
Exons	9325..9669, 9664..9870, 9738..9842		

Seq. No.	44978	Seq. ID	OJ000221_17.0407.C10
Gene No.	94957	Strand	-
Start	11568	End	13297
Name	OJ000221_17.0407.C10.o2.ts	Method	TBLASTX:Soybean
Start	9723	End	10074
GI	none	Score	147
Exons	9723..9851, 9724..9882, 9883..10071, 9885..10070, 9892..10074		

Seq. No.	44978	Seq. ID	OJ000221_17.0407.C10
Gene No.	94957	Strand	-
Start	11568	End	13297
Name	OJ000221_17.0407.C10.o4.tm	Method	TBLASTX:Maize
Start	9874	End	10233
GI	none	Score	257
Exons	9874..10197, 9880..10080, 9888..10175, 10189..10233, 10197..10232		

Seq. No.	44978	Seq. ID	OJ000221_17.0407.C10
Gene No.	94957	Strand	-
Start	11568	End	13297
Name	OJ000221_17.0407.C10.o5.ts	Method	TBLASTX:Soybean
Start	10075	End	10452
GI	none	Score	95
Exons	10075..10170, 10228..10452		

Seq. No.	44978	Seq. ID	OJ000221_17.0407.C10
Gene No.	94957	Strand	-
Start	11568	End	13297
Name	OJ000221_17.0407.C10.o2.tw	Method	TBLASTX:Wheat
Start	10078	End	10565
GI	none	Score	94

Exons 10078..10152, 10079..10138, 10083..10151, 10174..10527,  
10177..10563, 10194..10565

Seq. No. 44978 Seq. ID OJ000221\_17.0407.C10  
Gene No. 94957 Strand -  
Start 11568 End 13297  
Name OJ000221\_17.0407.C10.o3.np Method AAT/NAP  
Start 11568 End 13297  
GI 7248393 Score 327  
Exons 11568..11955, 11995..12074, 13188..13297  
GI Descrip. (AP001389) hypothetical protein [Oryza sativa]

Seq. No. 44978 Seq. ID OJ000221\_17.0407.C10  
Gene No. 94958 Strand  
Start 14385 End 14879  
Name OJ000221\_17.0407.C10.o5.tw Method TBLASTX:Wheat  
Start 14385 End 14879  
GI none Score 310  
Exons 14385..14879, 14409..14675, 14621..14824

Seq. No. 44979 Seq. ID OJ000221\_17.0407.C11  
Gene No. 94959 Strand +  
Start 5150 End 5228  
Name OJ000221\_17.0407.C11.o3.np Method AAT/NAP  
Start 5150 End 5228  
GI 6630699 Score 75  
Exons 5150..5228  
GI Descrip. (AP000969) hypothetical protein [Oryza sativa]  
gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein  
[Oryza sativa]

Seq. No. 44979 Seq. ID OJ000221\_17.0407.C11  
Gene No. 94960 Strand +  
Start 5354 End 10413  
Name OJ000221\_17.0407.C11.o4.np Method AAT/NAP  
Start 5354 End 8033  
GI 6539570 Score 168  
Exons 5354..5557, 5722..5789, 8008..8033  
GI Descrip. (AP000836) hypothetical protein [Oryza sativa]

Seq. No. 44979 Seq. ID OJ000221\_17.0407.C11  
Gene No. 94960 Strand +  
Start 5354 End 10413  
Name OJ000221\_17.0407.C11.o4.gs Method GENSCAN  
Start 7264 End 10413  
GI none Score .45  
Exons 7264..7314, 7582..8424, 8572..8883, 8963..9396, 9823..10214,  
10280..10413

Seq. No. 44979 Seq. ID OJ000221\_17.0407.C11  
Gene No. 94961 Strand +  
Start 23163 End 29310  
Name OJ000221\_17.0407.C11.o8.np Method AAT/NAP  
Start 23163 End 29310  
GI 5922631 Score 6590  
Exons 23163..23287, 23549..23793, 24051..24258, 24304..24868,  
24911..25061, 25188..26114, 26721..27227, 27287..29310

GI Descrip. (AP000492) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativa]  
gi|6016864|dbj|BAA85207.1| (AP000570) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativ

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94962	Strand	+
Start	34298	End	34494
Name	OJ000221_17.0407.C11.o2.gp	Method	AAT/GAP
Start	34298	End	34494
GI	LIB3477-003-P1-K1-E9	Score	74
Exons	34298..34325, 34435..34494		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94963	Strand	-
Start	1	End	302
Name	OJ000221_17.0407.C11.o1.np	Method	AAT/NAP
Start	1	End	302
GI	7248393	Score	85
Exons	1..302		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94963	Strand	-
Start	1	End	302
Name	OJ000221_17.0407.C11.o1.gs	Method	GENSCAN
Start	87	End	302
GI	none	Score	.91
Exons	87..302		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94964	Strand	-
Start	839	End	5103
Name	OJ000221_17.0407.C11.o2.gs	Method	GENSCAN
Start	839	End	5103
GI	none	Score	.56
Exons	839..1150, 1849..1901, 2123..2261, 2520..2689, 3470..3743, 4493..4517, 4829..5103		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94964	Strand	-
Start	839	End	5103
Name	OJ000221_17.0407.C11.o2.np	Method	AAT/NAP
Start	842	End	5090
GI	5922620	Score	437
Exons	842..969, 3023..3426, 3589..3622, 4493..4583, 5009..5090		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein. [Oryza sativa] gi 6016853 dbj BAA85196.1  (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94965	Strand	-
Start	5363	End	5617
Name	OJ000221_17.0407.C11.o3.gs	Method	GENSCAN
Start	5363	End	5617
GI	none	Score	.95
Exons	5363..5617		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94966	Strand	-
Start	10794	End	22712
Name	OJ000221_17.0407.C11.o5.gs	Method	GENSCAN
Start	10794	End	22712
GI	none	Score	.49
Exons	10794..12000, 12005..12122, 12559..12722, 12785..13060, 13823..14928, 15024..15085, 15187..15519, 15943..16042, 16076..16231, 16459..16851, 16929..17219, 17441..17625, 17749..17837, 18244..18432, 18499..18619, 19330..19363, 20255..20382, 21795..22489, 22491..22697, 22702..22712		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94966	Strand	-
Start	10794	End	22712
Name	OJ000221_17.0407.C11.o5.np	Method	AAT/NAP
Start	13297	End	15550
GI	7248394	Score	1786
Exons	13297..14360, 14628..15550		
GI Descrip.	(AP001389) ESTs C97394 (C60113), AU075824 (R0165), D38985 (R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15011 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94966	Strand	-
Start	10794	End	22712
Name	OJ000221_17.0407.C11.o7.np	Method	AAT/NAP
Start	17708	End	20429
GI	7340868	Score	65
Exons	17708..17897, 18486..18684, 20336..20429		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94966	Strand	-
Start	10794	End	22712
Name	OJ000221_17.0407.C11.o6.np	Method	AAT/NAP
Start	17764	End	18470
GI	7248393	Score	421
Exons	17764..18150, 18190..18470		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94967	Strand	-
Start	22702	End	23114
Name	OJ000221_17.0407.C11.o1.gp	Method	AAT/GAP
Start	22702	End	23114

GI	5816562	Score	559
Exons	22702..23114		
GI Descrip.	6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94968	Strand	-
Start	29676	End	32639
Name	OJ000221_17.0407.C11.o3.ts	Method	TBLASTX:Soybean
Start	10804	End	11054
GI	none	Score	42
Exons	10804..10842, 10809..11054, 10915..11052		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94968	Strand	-
Start	29676	End	32639
Name	OJ000221_17.0407.C11.o4.tm	Method	TBLASTX:Maize
Start	10866	End	29266
GI	none	Score	162
Exons	10866..10943, 29043..29213, 29153..29212, 29192..29266, 29193..29264		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94968	Strand	-
Start	29676	End	32639
Name	OJ000221_17.0407.C11.o6.tw	Method	TBLASTX:Wheat
Start	10869	End	29334
GI	none	Score	62
Exons	10869..10964, 10995..11123, 11145..11297, 11361..11432, 28699..28761, 28764..28997, 28880..29008, 29046..29210, 29202..29264, 29263..29334		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94968	Strand	-
Start	29676	End	32639
Name	OJ000221_17.0407.C11.o5.ts	Method	TBLASTX:Soybean
Start	11397	End	28548
GI	none	Score	87
Exons	11397..11795, 11575..11691, 28384..28548		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94968	Strand	-
Start	29676	End	32639
Name	OJ000221_17.0407.C11.o4.tw	Method	TBLASTX:Wheat
Start	11565	End	28584
GI	none	Score	391
Exons	11565..11621, 11652..11759, 11793..11930, 28195..28584, 28198..28584		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94968	Strand	-
Start	29676	End	32639
Name	OJ000221_17.0407.C11.o2.tm	Method	TBLASTX:Maize
Start	11628	End	28515
GI	none	Score	425
Exons	11628..11930, 28189..28497, 28191..28514, 28192..28515		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94968	Strand	-
Start	29676	End	32639
Name	OJ000221_17.0407.C11.o2.ts	Method	TBLASTX:Soybean
Start	13043	End	27810
GI	none	Score	123
Exons	13043..13297, 13045..13284, 13304..13453, 13318..13455, 27466..27570, 27474..27560, 27606..27791, 27610..27810		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94968	Strand	-
Start	29676	End	32639
Name	OJ000221_17.0407.C11.o3.tw	Method	TBLASTX:Wheat
Start	13141	End	27756
GI	none	Score	55
Exons	13141..13281, 13205..13279, 13321..13422, 13322..13423, 27348..27566, 27349..27579, 27609..27755, 27610..27756		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94968	Strand	-
Start	29676	End	32639
Name	OJ000221_17.0407.C11.o1.ts	Method	TBLASTX:Soybean
Start	13606	End	27181
GI	none	Score	81
Exons	13606..13794, 13619..13747, 13795..14076, 13901..14038, 26750..27181, 26797..26940		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94968	Strand	-
Start	29676	End	32639
Name	OJ000221_17.0407.C11.o2.tw	Method	TBLASTX:Wheat
Start	13693	End	27126
GI	none	Score	88
Exons	13693..13794, 13760..14011, 13789..14073, 26702..27121, 26746..27126		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94968	Strand	-
Start	29676	End	32639
Name	OJ000221_17.0407.C11.o1.tm	Method	TBLASTX:Maize
Start	13762	End	27049
GI	none	Score	300
Exons	13762..14223, 13763..14221, 13834..14223, 26606..27049, 26749..26955		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94968	Strand	-
Start	29676	End	32639
Name	OJ000221_17.0407.C11.o1.tw	Method	TBLASTX:Wheat
Start	14092	End	26590
GI	none	Score	250
Exons	14092..14436, 14092..14445, 14093..14437, 14440..14496, 14450..14491, 26384..26590		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94968	Strand	-
Start	29676	End	32639

Name	OJ000221_17.0407.C11.o3.tm	Method	TBLASTX:Maize
Start	14239	End	26605
GI	none	Score	80
Exons	14239..14565, 14278..14526, 14339..14554, 26261..26605, 26302..26604		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94968	Strand	-
Start	29676	End	32639
Name	OJ000221_17.0407.C11.o6.ts	Method	TBLASTX:Soybean
Start	14293	End	26536
GI	none	Score	71
Exons	14293..14427, 14434..14658, 14435..14647, 26171..26395, 26402..26536		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94968	Strand	-
Start	29676	End	32639
Name	OJ000221_17.0407.C11.o7.tw	Method	TBLASTX:Wheat
Start	14497	End	26382
GI	none	Score	71
Exons	14497..14733, 14501..14734, 26096..26380, 26110..26382		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94968	Strand	-
Start	29676	End	32639
Name	OJ000221_17.0407.C11.o5.tw	Method	TBLASTX:Wheat
Start	15290	End	25888
GI	none	Score	359
Exons	15290..15394, 25487..25888, 25630..25872		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94968	Strand	-
Start	29676	End	32639
Name	OJ000221_17.0407.C11.o4.ts	Method	TBLASTX:Soybean
Start	21845	End	22155
GI	none	Score	99
Exons	21845..22012, 21853..22038, 22066..22155		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94968	Strand	-
Start	29676	End	32639
Name	OJ000221_17.0407.C11.o11.tw	Method	TBLASTX:Wheat
Start	21856	End	22266
GI	none	Score	65
Exons	21856..21888, 21916..21969, 22063..22266, 22064..22207		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94968	Strand	-
Start	29676	End	32639
Name	OJ000221_17.0407.C11.o1.tc	Method	TBLASTX:Cress
Start	22066	End	22435
GI	none	Score	87
Exons	22066..22362, 22073..22306, 22403..22435		

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94968	Strand	-



Start 29676  
 Name OJ000221\_17.0407.C11.o8.tw  
 Start 24472  
 GI none  
 Exons 24472..24780, 24473..24874

End 32639  
 Method TBLASTX:Wheat  
 End 24874  
 Score 290

Seq. No. 44979  
 Gene No. 94968  
 Start 29676  
 Name OJ000221\_17.0407.C11.o7.tm  
 Start 25762  
 GI none  
 Exons 25762..25908, 25763..25939

Seq. ID OJ000221\_17.0407.C11  
 Strand -  
 End 32639  
 Method TBLASTX:Maize  
 End 25939  
 Score 185

Seq. No. 44979  
 Gene No. 94968  
 Start 29676  
 Name OJ000221\_17.0407.C11.o6.tm  
 Start 27529  
 GI none  
 Exons 27529..27699, 27703..27801

Seq. ID OJ000221\_17.0407.C11  
 Strand -  
 End 32639  
 Method TBLASTX:Maize  
 End 27801  
 Score 128

Seq. No. 44979  
 Gene No. 94968  
 Start 29676  
 Name OJ000221\_17.0407.C11.o10.tw  
 Start 27757  
 GI none  
 Exons 27757..27801, 27820..28029

Seq. ID OJ000221\_17.0407.C11  
 Strand -  
 End 32639  
 Method TBLASTX:Wheat  
 End 28029  
 Score 61

Seq. No. 44979  
 Gene No. 94968  
 Start 29676  
 Name OJ000221\_17.0407.C11.o5.tm  
 Start 28656  
 GI none  
 Exons 28656..28766, 28657..28767, 28766..28840, 28770..28853, 28863..28949

Seq. ID OJ000221\_17.0407.C11  
 Strand -  
 End 32639  
 Method TBLASTX:Maize  
 End 28949  
 Score 107

Seq. No. 44979  
 Gene No. 94968  
 Start 29676  
 Name OJ000221\_17.0407.C11.o7.gs  
 Start 29676  
 GI none  
 Exons 29676..30127, 30377..30566, 30641..30840, 30906..31261, 31339..31496, 31716..32639

Seq. ID OJ000221\_17.0407.C11  
 Strand -  
 End 32639  
 Method GENSCAN  
 End 32639  
 Score .64

Seq. No. 44979  
 Gene No. 94968  
 Start 29676  
 Name OJ000221\_17.0407.C11.o9.np  
 Start 29688  
 GI 6691716  
 Exons 29688..30127, 30201..30314, 30464..30566, 30641..30828, 30906..31039, 31115..31261, 31339..31513, 31706..32600  
 GI Descrip. (AP000492) hypothetical protein [Oryza sativa]

Seq. ID OJ000221\_17.0407.C11  
 Strand -  
 End 32639  
 Method AAT/NAP  
 End 32600  
 Score 2511

gi|6691717|dbj|BAA89397.1| (AP000570) hypothetical protein  
[Oryza sativa]

Seq. No.	44979	Seq. ID	OJ000221_17.0407.C11
Gene No.	94968	Strand	-
Start	29676	End	32639
Name	OJ000221_17.0407.C11.o9.tw	Method	TBLASTX:Wheat
Start	32190	End	32480
GI	none	Score	213
Exons	32190..32480		

Seq. No.	44980	Seq. ID	OJ000221_17.0407.C12
Gene No.	94969	Strand	+
Start	9588	End	12416
Name	OJ000221_17.0407.C12.o1.np	Method	AAT/NAP
Start	9588	End	12413
GI	6691716	Score	2490
Exons	9588..10476, 10598..10759, 10839..10938, 11011..11196, 11275..11462, 11537..11632, 11783..11902, 11965..12413		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6691717 dbj BAA89397.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	44980	Seq. ID	OJ000221_17.0407.C12
Gene No.	94969	Strand	+
Start	9588	End	12416
Name	OJ000221_17.0407.C12.o2.gs	Method	GENSCAN
Start	10887	End	12416
GI	none	Score	.95
Exons	10887..11196, 11275..11462, 11539..11725, 11798..11902, 12073..12416		

Seq. No.	44980	Seq. ID	OJ000221_17.0407.C12
Gene No.	94970	Strand	+
Start	21179	End	21520
Name	OJ000221_17.0407.C12.o1.gp	Method	AAT/GAP
Start	21179	End	21520
GI	25792_1.R1084	Score	642
Exons	21179..21520		
GI Descrip.	'4512233/dbj AB014743.1 AB014743 0.0e+00 Oryza sativa copia-type retrotransposon RIRE7 DNA, partial sequence'		

Seq. No.	44980	Seq. ID	OJ000221_17.0407.C12
Gene No.	94971	Strand	-
Start	12865	End	19474
Name	OJ000221_17.0407.C12.o2.np	Method	AAT/NAP
Start	12787	End	18870
GI	5922631	Score	6793
Exons	12787..15314, 15913..16839, 16966..17116, 17159..17745, 17791..17985, 18244..18488, 18747..18870		
GI Descrip.	(AP000492) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativa] gi 6016864 dbj BAA85207.1  (AP000570) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativ		

Seq. No.	44980	Seq. ID	OJ000221_17.0407.C12
Gene No.	94971	Strand	-
Start	12865	End	19474
Name	OJ000221_17.0407.C12.o3.gs	Method	GENSCAN
Start	12865	End	19474
GI	none	Score	.67
Exons	12865..14571, 14752..15447, 15551..15824, 15921..16435, 16496..17247, 17302..17953, 18154..18447, 18479..18823, 18906..18942, 19413..19474		

Seq. No.	44980	Seq. ID	OJ000221_17.0407.C12
Gene No.	94972	Strand	-
Start	20926	End	22106
Name	OJ000221_17.0407.C12.o4.gs	Method	GENSCAN
Start	20926	End	22106
GI	none	Score	.43
Exons	20926..21225, 21273..21353, 21946..22106		

Seq. No.	44980	Seq. ID	OJ000221_17.0407.C12
Gene No.	94972	Strand	-
Start	20926	End	22106
Name	OJ000221_17.0407.C12.o2.gp	Method	AAT/GAP
Start	21695	End	22080
GI	2312718	Score	740
Exons	21695..22080		
GI Descrip.	4512233/dbj AB014743.1 AB014743 1.0e-176 Oryza sativa copia-type retrotransposon RIRE7 DNA, partial sequence		

Seq. No.	44980	Seq. ID	OJ000221_17.0407.C12
Gene No.	94973	Strand	-
Start	22039	End	22351
Name	OJ000221_17.0407.C12.o9.tw	Method	TBLASTX:Wheat
Start	9708	End	9998
GI	none	Score	203
Exons	9708..9998		

Seq. No.	44980	Seq. ID	OJ000221_17.0407.C12
Gene No.	94973	Strand	-
Start	22039	End	22351
Name	OJ000221_17.0407.C12.o3.tw	Method	TBLASTX:Wheat
Start	12763	End	13377
GI	none	Score	83
Exons	12763..12900, 12886..13377, 13115..13222, 13271..13357		

Seq. No.	44980	Seq. ID	OJ000221_17.0407.C12
Gene No.	94973	Strand	-
Start	22039	End	22351
Name	OJ000221_17.0407.C12.o4.tm	Method	TBLASTX:Maize
Start	12802	End	13065
GI	none	Score	96
Exons	12802..12903, 12803..12904, 12883..13065, 12884..13009		

Seq. No.	44980	Seq. ID	OJ000221_17.0407.C12
Gene No.	94973	Strand	-
Start	22039	End	22351
Name	OJ000221_17.0407.C12.o6.tm	Method	TBLASTX:Maize

Start	13147	End	13426
GI	none	Score	51
Exons	13147..13233, 13243..13326, 13257..13325, 13313..13426, 13321..13419		

Seq. No.	44980	Seq. ID	OJ000221_17.0407.C12
Gene No.	94973	Strand	-
Start	22039	End	22351
Name	OJ000221_17.0407.C12.o5.tw	Method	TBLASTX:Wheat
Start	13490	End	13879
GI	none	Score	47
Exons	13490..13537, 13492..13878, 13504..13677, 13568..13879		

Seq. No.	44980	Seq. ID	OJ000221_17.0407.C12
Gene No.	94973	Strand	-
Start	22039	End	22351
Name	OJ000221_17.0407.C12.o1.tm	Method	TBLASTX:Maize
Start	13522	End	13884
GI	none	Score	221
Exons	13522..13569, 13561..13884, 13574..13864		

Seq. No.	44980	Seq. ID	OJ000221_17.0407.C12
Gene No.	94973	Strand	-
Start	22039	End	22351
Name	OJ000221_17.0407.C12.o10.tw	Method	TBLASTX:Wheat
Start	13882	End	14181
GI	none	Score	57
Exons	13882..13980, 13925..13993, 14047..14181		

Seq. No.	44980	Seq. ID	OJ000221_17.0407.C12
Gene No.	94973	Strand	-
Start	22039	End	22351
Name	OJ000221_17.0407.C12.o4.tw	Method	TBLASTX:Wheat
Start	14197	End	14619
GI	none	Score	228
Exons	14197..14619, 14273..14614		

Seq. No.	44980	Seq. ID	OJ000221_17.0407.C12
Gene No.	94973	Strand	-
Start	22039	End	22351
Name	OJ000221_17.0407.C12.o2.ts	Method	TBLASTX:Soybean
Start	14240	End	14628
GI	none	Score	122
Exons	14240..14488, 14242..14484, 14524..14628, 14534..14620		

Seq. No.	44980	Seq. ID	OJ000221_17.0407.C12
Gene No.	94973	Strand	-
Start	22039	End	22351
Name	OJ000221_17.0407.C12.o7.tm	Method	TBLASTX:Maize
Start	14293	End	14547
GI	none	Score	118
Exons	14293..14391, 14395..14547		

Seq. No.	44980	Seq. ID	OJ000221_17.0407.C12
Gene No.	94973	Strand	-
Start	22039	End	22351
Name	OJ000221_17.0407.C12.o8.tw	Method	TBLASTX:Wheat

Start	14620	End	14904
GI	none	Score	62
Exons	14620..14715, 14623..14904, 14803..14901		
Seq. No.	44980	Seq. ID	OJ000221_17.0407.C12
Gene No.	94973	Strand	-
Start	22039	End	22351
Name	OJ000221_17.0407.C12.o2.tm	Method	TBLASTX:Maize
Start	14743	End	15187
GI	none	Score	46
Exons	14743..14769, 14767..14910, 14779..14898, 14932..15186, 14933..15187		
Seq. No.	44980	Seq. ID	OJ000221_17.0407.C12
Gene No.	94973	Strand	-
Start	22039	End	22351
Name	OJ000221_17.0407.C12.o1.ts	Method	TBLASTX:Soybean
Start	14854	End	15285
GI	none	Score	43
Exons	14854..15285, 14888..15058, 15095..15238		
Seq. No.	44980	Seq. ID	OJ000221_17.0407.C12
Gene No.	94973	Strand	-
Start	22039	End	22351
Name	OJ000221_17.0407.C12.o2.tw	Method	TBLASTX:Wheat
Start	14909	End	15333
GI	none	Score	279
Exons	14909..15289, 14914..15333		
Seq. No.	44980	Seq. ID	OJ000221_17.0407.C12
Gene No.	94973	Strand	-
Start	22039	End	22351
Name	OJ000221_17.0407.C12.o6.tw	Method	TBLASTX:Wheat
Start	15452	End	15775
GI	none	Score	183
Exons	15452..15775, 15453..15755		
Seq. No.	44980	Seq. ID	OJ000221_17.0407.C12
Gene No.	94973	Strand	-
Start	22039	End	22351
Name	OJ000221_17.0407.C12.o3.tm	Method	TBLASTX:Maize
Start	15464	End	15766
GI	none	Score	129
Exons	15464..15766, 15534..15725		
Seq. No.	44980	Seq. ID	OJ000221_17.0407.C12
Gene No.	94973	Strand	-
Start	22039	End	22351
Name	OJ000221_17.0407.C12.o3.ts	Method	TBLASTX:Soybean
Start	15491	End	15856
GI	none	Score	130
Exons	15491..15625, 15632..15856		
Seq. No.	44980	Seq. ID	OJ000221_17.0407.C12
Gene No.	94973	Strand	-
Start	22039	End	22351
Name	OJ000221_17.0407.C12.o1.tw	Method	TBLASTX:Wheat

Start	15776	End	16573
GI	none	Score	114
Exons	15776..16069, 15780..16049, 16118..16348, 16152..16352, 16397..16573		

Seq. No.	44980	Seq. ID	OJ000221_17.0407.C12
Gene No.	94973	Strand	-
Start	22039	End	22351
Name	OJ000221_17.0407.C12.o7.tw	Method	TBLASTX:Wheat
Start	17153	End	17555
GI	none	Score	112
Exons	17153..17554, 17247..17555		

Seq. No.	44980	Seq. ID	OJ000221_17.0407.C12
Gene No.	94973	Strand	-
Start	22039	End	22351
Name	OJ000221_17.0407.C12.o5.tm	Method	TBLASTX:Maize
Start	19576	End	19893
GI	none	Score	109
Exons	19576..19683, 19711..19893		

Seq. No.	44980	Seq. ID	OJ000221_17.0407.C12
Gene No.	94973	Strand	-
Start	22039	End	22351
Name	OJ000221_17.0407.C12.o3.np	Method	AAT/NAP
Start	22039	End	22351
GI	6705984	Score	181
Exons	22039..22351		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	44981	Seq. ID	OJ000221_17.0407.C14
Gene No.	94974	Strand	+
Start	136	End	601
Name	OJ000221_17.0407.C14.o1.gs	Method	GENSCAN
Start	136	End	601
GI	none	Score	.8
Exons	136..141, 170..601		

Seq. No.	44982	Seq. ID	OJ000221_17.0407.C15
Gene No.	94975	Strand	+
Start	622	End	636
Name	OJ000221_17.0407.C15.o1.gs	Method	GENSCAN
Start	622	End	636
GI	none	Score	.62
Exons	622..636		

Seq. No.	44983	Seq. ID	OJ000221_16.0403.C3
Gene No.	94976	Strand	+
Start	1816	End	2186
Name	OJ000221_16.0403.C3.o1.gp	Method	AAT/GAP
Start	1816	End	2186
GI	none	Score	702
Exons	1816..2186		

Seq. No.	44983	Seq. ID	OJ000221_16.0403.C3
Gene No.	94977	Strand	-
Start	1593	End	4603

Name	OJ000221_16.0403.C3.o2.gs	Method	GENSCAN
Start	1593	End	4532
GI	none	Score	.78
Exons	1593..1660, 2254..2356, 3013..3209, 3745..4016, 4282..4532		
Seq. No.	44983	Seq. ID	OJ000221_16.0403.C3
Gene No.	94977	Strand	-
Start	1593	End	4603
Name	OJ000221_16.0403.C3.o1.np	Method	AAT/NAP
Start	2177	End	4603
GI	2459443	Score	1434
Exons	2177..2617, 3013..3209, 3745..4013, 4282..4603		
GI Descrip.	(AC002332) putative steroid dehydrogenase [Arabidopsis thaliana]		
Seq. No.	44983	Seq. ID	OJ000221_16.0403.C3
Gene No.	94977	Strand	-
Start	1593	End	4603
Name	OJ000221_16.0403.C3.o1.tc	Method	TBLASTX:Cress
Start	2183	End	3099
GI	none	Score	70
Exons	2183..2341, 2186..2620, 2187..2621, 3001..3099, 3011..3085		
Seq. No.	44983	Seq. ID	OJ000221_16.0403.C3
Gene No.	94977	Strand	-
Start	1593	End	4603
Name	OJ000221_16.0403.C3.o1.tm	Method	TBLASTX:Maize
Start	2189	End	3081
GI	none	Score	313
Exons	2189..2227, 2198..2620, 2216..2620, 2217..2627, 2221..2631, 3004..3081, 3008..3079		
Seq. No.	44983	Seq. ID	OJ000221_16.0403.C3
Gene No.	94977	Strand	-
Start	1593	End	4603
Name	OJ000221_16.0403.C3.o2.ts	Method	TBLASTX:Soybean
Start	2339	End	3814
GI	none	Score	42
Exons	2339..2632, 2340..2378, 2406..2618, 2504..2620, 3004..3225, 3008..3217, 3013..3252, 3743..3814		
Seq. No.	44983	Seq. ID	OJ000221_16.0403.C3
Gene No.	94977	Strand	-
Start	1593	End	4603
Name	OJ000221_16.0403.C3.o1.tw	Method	TBLASTX:Wheat
Start	2385	End	2548
GI	none	Score	140
Exons	2385..2537, 2387..2548		
Seq. No.	44983	Seq. ID	OJ000221_16.0403.C3
Gene No.	94977	Strand	-
Start	1593	End	4603
Name	OJ000221_16.0403.C3.o2.tc	Method	TBLASTX:Cress
Start	3103	End	4338
GI	none	Score	62
Exons	3103..3225, 3119..3223, 3739..3993, 3743..4000, 3744..4004, 3756..4007, 3757..4011, 4279..4338, 4281..4337		

Seq. No.	44983	Seq. ID	OJ000221_16.0403.C3
Gene No.	94977	Strand	-
Start	1593	End	4603
Name	OJ000221_16.0403.C3.o2.gp	Method	AAT/GAP
Start	3789	End	4447
GI	35654_1.R1084	Score	736
Exons	3789..4016, 4282..4447		
GI Descrip.	'2459443 4.0e-47 (AC002332) putative NAD(P)-dependent cholesterol dehydrogenase [Arabidopsis thaliana]'		

Seq. No.	44983	Seq. ID	OJ000221_16.0403.C3
Gene No.	94977	Strand	-
Start	1593	End	4603
Name	OJ000221_16.0403.C3.o1.ts	Method	TBLASTX:Soybean
Start	3915	End	4602
GI	none	Score	103
Exons	3915..4019, 3917..4018, 4276..4602, 4281..4601		

Seq. No.	44983	Seq. ID	OJ000221_16.0403.C3
Gene No.	94977	Strand	-
Start	1593	End	4603
Name	OJ000221_16.0403.C3.o2.tm	Method	TBLASTX:Maize
Start	4332	End	4603
GI	none	Score	311
Exons	4332..4601, 4333..4602, 4340..4603		

Seq. No.	44983	Seq. ID	OJ000221_16.0403.C3
Gene No.	94977	Strand	-
Start	1593	End	4603
Name	OJ000221_16.0403.C3.o3.tc	Method	TBLASTX:Cress
Start	4386	End	4603
GI	none	Score	121
Exons	4386..4601, 4386..4601, 4390..4602, 4391..4603, 4474..4602		

Seq. No.	44983	Seq. ID	OJ000221_16.0403.C3
Gene No.	94977	Strand	-
Start	1593	End	4603
Name	OJ000221_16.0403.C3.o3.gp	Method	AAT/GAP
Start	4447	End	4603
GI	uC-osflcyp028g03b1	Score	287
Exons	4447..4603		
GI Descrip.	'2459443 2.0e-35 (AC002332) putative NAD(P)-dependent cholesterol dehydrogenase [Arabidopsis thaliana]'		

Seq. No.	44984	Seq. ID	OJ000221_16.0403.C4
Gene No.	94978	Strand	+
Start	313	End	771
Name	OJ000221_16.0403.C4.o1.gs	Method	GENSCAN
Start	313	End	771
GI	none	Score	.64
Exons	313..771		

Seq. No.	44984	Seq. ID	OJ000221_16.0403.C4
Gene No.	94979	Strand	+
Start	5477	End	10242
Name	OJ000221_16.0403.C4.o3.gs	Method	GENSCAN
Start	5477	End	10242



GI none Score .4  
Exons 5477..5491, 6044..6069, 6298..6565, 6577..6786, 10141..10242

Seq. No. 44984 Seq. ID OJ000221\_16.0403.C4  
Gene No. 94979 Strand +  
Start 5477 End 10242  
Name OJ000221\_16.0403.C4.o2.np Method AAT/NAP  
Start 6674 End 8444  
GI 5922620 Score 128  
Exons 6674..6693, 8322..8444  
GI Descrip. (AP000492) EST D15357(C0514) corresponds to a region of the  
predicted gene.; hypothetical protein [Oryza sativa]  
gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514)  
corresponds to a region of the predicted gene.; hypothetical  
protein [Oryza sativa]

Seq. No. 44984 Seq. ID OJ000221\_16.0403.C4  
Gene No. 94980 Strand -  
Start 321 End 568  
Name OJ000221\_16.0403.C4.o1.gp Method AAT/GAP  
Start 321 End 568  
GI uC-osflcyp028g03b1 Score 454  
Exons 321..568  
GI Descrip. '2459443 2.0e-35 (AC002332) putative NAD(P)-dependent  
cholesterol dehydrogenase [Arabidopsis thaliana]'

Seq. No. 44984 Seq. ID OJ000221\_16.0403.C4  
Gene No. 94981 Strand -  
Start 1855 End 3513  
Name OJ000221\_16.0403.C4.o2.gs Method GENSCAN  
Start 1855 End 3507  
GI none Score .86  
Exons 1855..2085, 2195..2335, 2457..2692, 3042..3507

Seq. No. 44984 Seq. ID OJ000221\_16.0403.C4  
Gene No. 94981 Strand -  
Start 1855 End 3513  
Name OJ000221\_16.0403.C4.o1.np Method AAT/NAP  
Start 1873 End 3513  
GI 4836904 Score 1015  
Exons 1873..2085, 2195..2335, 2457..2692, 3042..3513  
GI Descrip. (AC007369) lcl|prt seq No definition line found [Arabidopsis  
thaliana] gi|6708183|gb|AAF25832.1|AF191028\_1 (AF191028)  
papain-type cysteine endopeptidase XCP2 [Arabidopsis thaliana]

Seq. No. 44984 Seq. ID OJ000221\_16.0403.C4  
Gene No. 94982 Strand -  
Start 8583 End 8666  
Name OJ000221\_16.0403.C4.o3.np Method AAT/NAP  
Start 8583 End 8666  
GI 6630699 Score 79  
Exons 8583..8666  
GI Descrip. (AP000969) hypothetical protein [Oryza sativa]  
gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein  
[Oryza sativa]

Seq. No. 44984 Seq. ID OJ000221\_16.0403.C4

Gene No.	94983	Strand	-
Start	10492	End	10703
Name	OJ000221_16.0403.C4.o4.np	Method	AAT/NAP
Start	10492	End	10703
GI	13211	Score	288
Exons	10492..10703		
GI Descrip.	(X52160) URF-RMC [Oryza sativa]		

Seq. No.	44984	Seq. ID	OJ000221_16.0403.C4
Gene No.	94984	Strand	-
Start	11350	End	15646
Name	OJ000221_16.0403.C4.o2.ts	Method	TBLASTX:Soybean
Start	308	End	512
GI	none	Score	45
Exons	308..511, 309..368, 441..512		

Seq. No.	44984	Seq. ID	OJ000221_16.0403.C4
Gene No.	94984	Strand	-
Start	11350	End	15646
Name	OJ000221_16.0403.C4.o2.tc	Method	TBLASTX:Cress
Start	320	End	514
GI	none	Score	90
Exons	320..514, 441..512		

Seq. No.	44984	Seq. ID	OJ000221_16.0403.C4
Gene No.	94984	Strand	-
Start	11350	End	15646
Name	OJ000221_16.0403.C4.o3.tm	Method	TBLASTX:Maize
Start	320	End	536
GI	none	Score	41
Exons	320..535, 321..365, 395..535, 441..536		

Seq. No.	44984	Seq. ID	OJ000221_16.0403.C4
Gene No.	94984	Strand	-
Start	11350	End	15646
Name	OJ000221_16.0403.C4.o1.ts	Method	TBLASTX:Soybean
Start	1877	End	3486
GI	none	Score	180
Exons	1877..2086, 1879..2100, 2193..2327, 2195..2329, 2196..2324, 2448..2711, 2451..2693, 2518..2712, 3038..3118, 3040..3114, 3136..3486, 3137..3436		

Seq. No.	44984	Seq. ID	OJ000221_16.0403.C4
Gene No.	94984	Strand	-
Start	11350	End	15646
Name	OJ000221_16.0403.C4.o1.tc	Method	TBLASTX:Cress
Start	1879	End	3447
GI	none	Score	155
Exons	1879..2100, 1880..2086, 2195..2329, 2196..2318, 2201..2338, 2448..2519, 2520..2564, 2533..2565, 2556..2699, 2568..2711, 2569..2712, 3038..3106, 3040..3132, 3151..3447, 3182..3439		

Seq. No.	44984	Seq. ID	OJ000221_16.0403.C4
Gene No.	94984	Strand	-
Start	11350	End	15646
Name	OJ000221_16.0403.C4.o1.tm	Method	TBLASTX:Maize
Start	1879	End	2676

GI	none	Score	112
Exons	1879..2100, 1946..2086, 2200..2316, 2201..2332, 2448..2675, 2496..2672, 2515..2676		

Seq. No.	44984	Seq. ID	OJ000221_16.0403.C4
Gene No.	94984	Strand	-
Start	11350	End	15646
Name	OJ000221_16.0403.C4.o1.tw	Method	TBLASTX:Wheat
Start	2496	End	3108
GI	none	Score	74
Exons	2496..2687, 2496..2693, 2515..2694, 2530..2694, 3038..3106, 3040..3108		

Seq. No.	44984	Seq. ID	OJ000221_16.0403.C4
Gene No.	94984	Strand	-
Start	11350	End	15646
Name	OJ000221_16.0403.C4.o2.tm	Method	TBLASTX:Maize
Start	3038	End	3430
GI	none	Score	98
Exons	3038..3106, 3040..3108, 3175..3252, 3176..3253, 3259..3429, 3263..3430		

Seq. No.	44984	Seq. ID	OJ000221_16.0403.C4
Gene No.	94984	Strand	-
Start	11350	End	15646
Name	OJ000221_16.0403.C4.o4.gs	Method	GENSCAN
Start	11350	End	15646
GI	none	Score	.68
Exons	11350..11547, 11619..12185, 12984..13153, 13359..13550, 13855..13890, 14532..14585, 15529..15646		

Seq. No.	44984	Seq. ID	OJ000221_16.0403.C4
Gene No.	94984	Strand	-
Start	11350	End	15646
Name	OJ000221_16.0403.C4.o4.tm	Method	TBLASTX:Maize
Start	11906	End	12203
GI	none	Score	68
Exons	11906..11968, 11907..11969, 11972..12052, 11974..12051, 12081..12203, 12082..12195, 12092..12202		

Seq. No.	44985	Seq. ID	OJ000221_16.0403.C5
Gene No.	94985	Strand	+
Start	626	End	5568
Name	OJ000221_16.0403.C5.o1.np	Method	AAT/NAP
Start	626	End	5568
GI	7228457	Score	5982
Exons	626..992, 1054..2988, 3052..3886, 4009..5043, 5538..5568		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	44985	Seq. ID	OJ000221_16.0403.C5
Gene No.	94986	Strand	+
Start	10377	End	12759
Name	OJ000221_16.0403.C5.o3.gs	Method	GENSCAN
Start	10377	End	12759
GI	none	Score	.74

Exons 10377..10448, 10791..10961, 12539..12629, 12740..12759

Seq. No.	44985	Seq. ID	OJ000221_16.0403.C5
Gene No.	94987	Strand	+
Start	19724	End	20045
Name	OJ000221_16.0403.C5.o5.gs	Method	GENSCAN
Start	19724	End	20045
GI	none	Score	.54
Exons	19724..19741, 19802..19967, 19983..20045		

Seq. No.	44985	Seq. ID	OJ000221_16.0403.C5
Gene No.	94988	Strand	-
Start	6142	End	20139
Name	OJ000221_16.0403.C5.o6.tw	Method	TBLASTX:Wheat
Start	1283	End	1671
GI	none	Score	50
Exons	1283..1327, 1334..1432, 1351..1431, 1415..1468, 1471..1671, 1482..1637		

Seq. No.	44985	Seq. ID	OJ000221_16.0403.C5
Gene No.	94988	Strand	-
Start	6142	End	20139
Name	OJ000221_16.0403.C5.o3.tw	Method	TBLASTX:Wheat
Start	2409	End	2895
GI	none	Score	389
Exons	2409..2582, 2410..2895, 2604..2864		

Seq. No.	44985	Seq. ID	OJ000221_16.0403.C5
Gene No.	94988	Strand	-
Start	6142	End	20139
Name	OJ000221_16.0403.C5.o1.tw	Method	TBLASTX:Wheat
Start	3059	End	3515
GI	none	Score	215
Exons	3059..3502, 3060..3515, 3061..3504		

Seq. No.	44985	Seq. ID	OJ000221_16.0403.C5
Gene No.	94988	Strand	-
Start	6142	End	20139
Name	OJ000221_16.0403.C5.o2.ts	Method	TBLASTX:Soybean
Start	3100	End	3465
GI	none	Score	117
Exons	3100..3324, 3331..3465		

Seq. No.	44985	Seq. ID	OJ000221_16.0403.C5
Gene No.	94988	Strand	-
Start	6142	End	20139
Name	OJ000221_16.0403.C5.o1.tm	Method	TBLASTX:Maize
Start	3190	End	3546
GI	none	Score	386
Exons	3190..3546, 3225..3536, 3430..3546		

Seq. No.	44985	Seq. ID	OJ000221_16.0403.C5
Gene No.	94988	Strand	-
Start	6142	End	20139
Name	OJ000221_16.0403.C5.o2.tm	Method	TBLASTX:Maize
Start	3573	End	3957
GI	none	Score	362

Exons 3573..3938, 3574..3957

Seq. No. 44985  
Gene No. 94988  
Start 6142  
Name OJ000221\_16.0403.C5.o2.tw  
Start 3630  
GI none  
Exons 3630..4025, 3631..4050

Seq. ID OJ000221\_16.0403.C5  
Strand -  
End 20139  
Method TBLASTX:Wheat  
End 4050  
Score 485

Seq. No. 44985  
Gene No. 94988  
Start 6142  
Name OJ000221\_16.0403.C5.o1.ts  
Start 3709  
GI none  
Exons 3709..4080, 3726..3869

Seq. ID OJ000221\_16.0403.C5  
Strand -  
End 20139  
Method TBLASTX:Soybean  
End 4080  
Score 281

Seq. No. 44985  
Gene No. 94988  
Start 6142  
Name OJ000221\_16.0403.C5.o4.tw  
Start 4488  
GI none  
Exons 4488..4709, 4512..4736, 4577..4753, 4797..4946, 4808..4945

Seq. ID OJ000221\_16.0403.C5  
Strand -  
End 20139  
Method TBLASTX:Wheat  
End 4946  
Score 236

Seq. No. 44985  
Gene No. 94988  
Start 6142  
Name OJ000221\_16.0403.C5.o5.tw  
Start 5009  
GI none  
Exons 5009..5353, 5047..5190, 5383..5505, 5384..5509

Seq. ID OJ000221\_16.0403.C5  
Strand -  
End 20139  
Method TBLASTX:Wheat  
End 5509  
Score 210

Seq. No. 44985  
Gene No. 94988  
Start 6142  
Name OJ000221\_16.0403.C5.o2.gs  
Start 6142  
GI none  
Exons 6142..7728, 7858..8017, 8121..8289, 8434..9401, 9572..9801

Seq. ID OJ000221\_16.0403.C5  
Strand -  
End 20139  
Method GENSCAN  
End 9801  
Score .89

Seq. No. 44985  
Gene No. 94988  
Start 6142  
Name OJ000221\_16.0403.C5.o2.np  
Start 6145  
GI 6907089

Seq. ID OJ000221\_16.0403.C5  
Strand -  
End 20139  
Method AAT/NAP  
End 9382  
Score 4216

Exons 6145..8017, 8121..9382  
GI Descrip. (AP001129) hypothetical protein [Oryza sativa]

Seq. No. 44985  
Gene No. 94988  
Start 6142  
Name OJ000221\_16.0403.C5.o3.np  
Start 8826  
GI 81286

Seq. ID OJ000221\_16.0403.C5  
Strand -  
End 20139  
Method AAT/NAP  
End 20139  
Score 137

Exons 8826..8917, 9265..9401, 9930..10032, 18306..18612, 19286..19348, 20084..20139  
 GI Descrip. extensin - *Volvox carteri* (fragment) gi|21992|emb|CAA46283| (X65165) extensin [*Volvox carteri*]

Seq. No. 44985 Seq. ID OJ000221\_16.0403.C5  
 Gene No. 94988 Strand -  
 Start 6142 End 20139  
 Name OJ000221\_16.0403.C5.o4.gs Method GENSCAN  
 Start 14072 End 18792  
 GI none Score .48  
 Exons 14072..14107, 14166..14246, 15467..15575, 16153..16175, 16371..16497, 17763..17851, 18361..18574, 18614..18792

Seq. No. 44986 Seq. ID OJ000221\_16.0403.C6  
 Gene No. 94989 Strand -  
 Start 1 End 1289  
 Name OJ000221\_16.0403.C6.o1.np Method AAT/NAP  
 Start 1 End 1289  
 GI 6815109 Score 106  
 Exons 1..188, 1106..1289  
 GI Descrip. (AP001081) hypothetical protein [*Oryza sativa*]

Seq. No. 44986 Seq. ID OJ000221\_16.0403.C6  
 Gene No. 94990 Strand -  
 Start 3432 End 4675  
 Name OJ000221\_16.0403.C6.o2.np Method AAT/NAP  
 Start 3432 End 4675  
 GI 7228441 Score 92  
 Exons 3432..3471, 4506..4675  
 GI Descrip. (AP001366) hypothetical protein [*Oryza sativa*]

Seq. No. 44986 Seq. ID OJ000221\_16.0403.C6  
 Gene No. 94991 Strand -  
 Start 6918 End 11063  
 Name OJ000221\_16.0403.C6.o1.gp Method AAT/GAP  
 Start 6750 End 8277  
 GI 38739 1.R1084 Score 1260  
 Exons 6750..7051, 7128..7228, 7666..7794, 7924..7992, 8086..8277  
 GI Descrip. '4902879/emb|CAB43602.1| 1.0e-24 (AJ006943) phosphoribosyl pyrophosphate synthase isozyme 4 [*Spinacia oleracea*]'

Seq. No. 44986 Seq. ID OJ000221\_16.0403.C6  
 Gene No. 94991 Strand -  
 Start 6918 End 11063  
 Name OJ000221\_16.0403.C6.o2.gs Method GENSCAN  
 Start 6918 End 11063  
 GI none Score .54  
 Exons 6918..7051, 7129..7228, 7666..7830, 7924..8497, 8600..8864, 9034..9097, 10551..11063

Seq. No. 44986 Seq. ID OJ000221\_16.0403.C6  
 Gene No. 94991 Strand -  
 Start 6918 End 11063  
 Name OJ000221\_16.0403.C6.o3.np Method AAT/NAP  
 Start 6921 End 8715  
 GI 4902879 Score 1188

Exons 6921..7048, 7129..7228, 7666..7794, 7924..7992, 8086..8497, 8600..8715  
 GI Descrip. (AJ006943) phosphoribosyl pyrophosphate synthase isozyme 4 [Spinacia oleracea]

Seq. No. 44986 Seq. ID OJ000221\_16.0403.C6  
 Gene No. 94991 Strand -  
 Start 6918 End 11063  
 Name OJ000221\_16.0403.C6.o2.gp Method AAT/GAP  
 Start 8349 End 8889  
 GI 71940\_1.R1084 Score 830  
 Exons 8349..8497, 8600..8889  
 GI Descrip. '4512664/gb|AAD21718.1| 4.0e-32 (AC006931) putative ribose phosphate pyrophosphokinase [Arabidopsis thaliana]  
 >gi\_4544471\_gb\_AAD22378.1\_AC006580\_10 (AC006580) putative ribose phosphate pyrophosphokinase [Arabidopsis thaliana]  
 >gi\_4902472\_emb\_CAB43553.1 (AJ012407) phosphoribosyl diphosphate synthase [Arabidopsis thaliana]'

Seq. No. 44986 Seq. ID OJ000221\_16.0403.C6  
 Gene No. 94991 Strand -  
 Start 6918 End 11063  
 Name OJ000221\_16.0403.C6.o3.gp Method AAT/GAP  
 Start 10189 End 10571  
 GI none Score 736  
 Exons 10189..10571

Seq. No. 44986 Seq. ID OJ000221\_16.0403.C6  
 Gene No. 94992 Strand -  
 Start 11441 End 16020  
 Name OJ000221\_16.0403.C6.o1.tm Method TBLASTX:Maize  
 Start 6743 End 8820  
 GI none Score 54  
 Exons 6743..6808, 6744..6827, 6823..6930, 6825..6920, 6827..6931, 6899..7051, 6916..7050, 6918..7052, 6918..7079, 6919..7053, 7129..7230, 7130..7231, 7145..7231, 7663..7791, 7666..7794, 7670..7798, 7921..7992, 7925..7993, 8083..8532, 8086..8148, 8132..8497, 8431..8544, 8599..8691, 8599..8736, 8603..8734, 8793..8819, 8794..8820

Seq. No. 44986 Seq. ID OJ000221\_16.0403.C6  
 Gene No. 94992 Strand -  
 Start 11441 End 16020  
 Name OJ000221\_16.0403.C6.o4.ts Method TBLASTX:Soybean  
 Start 6898 End 7192  
 GI none Score 112  
 Exons 6898..7035, 6918..7034, 7139..7192

Seq. No. 44986 Seq. ID OJ000221\_16.0403.C6  
 Gene No. 94992 Strand -  
 Start 11441 End 16020  
 Name OJ000221\_16.0403.C6.o4.tc Method TBLASTX:Cress  
 Start 6915 End 7201  
 GI none Score 125  
 Exons 6915..7049, 6916..7050, 6919..7068, 7127..7201

Seq. No. 44986 Seq. ID OJ000221\_16.0403.C6

Gene No.	94992	Strand	-
Start	11441	End	16020
Name	OJ000221_16.0403.C6.o1.ts	Method	TBLASTX:Soybean
Start	7751	End	8730
GI	none	Score	57
Exons	7751..7795, 7753..7794, 7921..7992, 7922..7987, 8078..8491, 8083..8499, 8599..8691, 8599..8730		

Seq. No.	44986	Seq. ID	OJ000221_16.0403.C6
Gene No.	94992	Strand	-
Start	11441	End	16020
Name	OJ000221_16.0403.C6.o1.tc	Method	TBLASTX:Cress
Start	7921	End	8700
GI	none	Score	80
Exons	7921..7995, 7922..7984, 8131..8550, 8132..8503, 8599..8688, 8599..8700		

Seq. No.	44986	Seq. ID	OJ000221_16.0403.C6
Gene No.	94992	Strand	-
Start	11441	End	16020
Name	OJ000221_16.0403.C6.o3.tm	Method	TBLASTX:Maize
Start	10198	End	10788
GI	none	Score	374
Exons	10198..10242, 10261..10287, 10431..10787, 10435..10788		

Seq. No.	44986	Seq. ID	OJ000221_16.0403.C6
Gene No.	94992	Strand	-
Start	11441	End	16020
Name	OJ000221_16.0403.C6.o2.tc	Method	TBLASTX:Cress
Start	10479	End	11006
GI	none	Score	173
Exons	10479..10871, 10483..10872, 10881..11006		

Seq. No.	44986	Seq. ID	OJ000221_16.0403.C6
Gene No.	94992	Strand	-
Start	11441	End	16020
Name	OJ000221_16.0403.C6.o6.tm	Method	TBLASTX:Maize
Start	10917	End	11202
GI	none	Score	150
Exons	10917..11063, 10918..11115, 10918..11064, 11067..11135, 11068..11202, 11075..11200		

Seq. No.	44986	Seq. ID	OJ000221_16.0403.C6
Gene No.	94992	Strand	-
Start	11441	End	16020
Name	OJ000221_16.0403.C6.o4.tm	Method	TBLASTX:Maize
Start	11202	End	11518
GI	none	Score	259
Exons	11202..11465, 11203..11466, 11204..11464, 11217..11465, 11470..11517, 11480..11518, 11481..11516		

Seq. No.	44986	Seq. ID	OJ000221_16.0403.C6
Gene No.	94992	Strand	-
Start	11441	End	16020
Name	OJ000221_16.0403.C6.o3.gs	Method	GENSCAN
Start	11441	End	16020
GI	none	Score	.82



Exons 11441..11895, 12359..12532, 12955..13187, 13269..13435,  
13534..13875, 14313..14393, 14578..14701, 14836..14950,  
15222..15283, 15490..16020

Seq. No.	44986	Seq. ID	OJ000221_16.0403.C6
Gene No.	94992	Strand	-
Start	11441	End	16020
Name	OJ000221_16.0403.C6.o3.ts	Method	TBLASTX:Soybean
Start	11544	End	11905
GI	none	Score	181
Exons	11544..11723, 11549..11713, 11723..11905, 11727..11891		

Seq. No.	44986	Seq. ID	OJ000221_16.0403.C6
Gene No.	94992	Strand	-
Start	11441	End	16020
Name	OJ000221_16.0403.C6.o5.tm	Method	TBLASTX:Maize
Start	11645	End	12716
GI	none	Score	317
Exons	11645..11905, 11646..11897, 11647..11898, 12357..12455, 12358..12411, 12402..12680, 12417..12716, 12562..12681		

Seq. No.	44986	Seq. ID	OJ000221_16.0403.C6
Gene No.	94992	Strand	-
Start	11441	End	16020
Name	OJ000221_16.0403.C6.o1.tw	Method	TBLASTX:Wheat
Start	11661	End	12528
GI	none	Score	302
Exons	11661..11897, 11663..11905, 12350..12415, 12357..12416, 12363..12416, 12410..12526, 12414..12527, 12422..12526, 12433..12528		

Seq. No.	44986	Seq. ID	OJ000221_16.0403.C6
Gene No.	94992	Strand	-
Start	11441	End	16020
Name	OJ000221_16.0403.C6.o5.tc	Method	TBLASTX:Cress
Start	11675	End	11909
GI	none	Score	137
Exons	11675..11908, 11685..11909		

Seq. No.	44986	Seq. ID	OJ000221_16.0403.C6
Gene No.	94992	Strand	-
Start	11441	End	16020
Name	OJ000221_16.0403.C6.o3.tc	Method	TBLASTX:Cress
Start	15507	End	15821
GI	none	Score	101
Exons	15507..15641, 15508..15627, 15678..15821, 15679..15792		

Seq. No.	44987	Seq. ID	OJ000221_16.0403.C7
Gene No.	94993	Strand	+
Start	822	End	6115
Name	OJ000221_16.0403.C7.o1.gs	Method	GENSCAN
Start	822	End	6109
GI	none	Score	.61
Exons	822..884, 1034..1103, 1222..1341, 1702..2395, 2494..2533, 2704..2756, 2848..2893, 2962..3039, 3464..3556, 4781..4900, 4962..5026, 5403..5469, 5614..5664, 5833..5925, 6005..6109		

Seq. No.	44987	Seq. ID	OJ000221_16.0403.C7
Gene No.	94993	Strand	+
Start	822	End	6115
Name	OJ000221_16.0403.C7.o1.np	Method	AAT/NAP
Start	1842	End	6097
GI	6642669	Score	564
Exons	1842..2204, 2236..2395, 2494..2533, 2704..2800, 2848..2893, 3464..3576, 4796..4909, 5153..5469, 5614..5664, 5833..5925, 6005..6097		
GI Descrip.	(AC015450) putative DNA-binding protein [Arabidopsis thaliana]		

Seq. No.	44987	Seq. ID	OJ000221_16.0403.C7
Gene No.	94993	Strand	+
Start	822	End	6115
Name	OJ000221_16.0403.C7.o2.ts	Method	TBLASTX:Soybean
Start	2250	End	2899
GI	none	Score	179
Exons	2250..2396, 2492..2542, 2701..2757, 2703..2756, 2846..2899, 2848..2892		

Seq. No.	44987	Seq. ID	OJ000221_16.0403.C7
Gene No.	94993	Strand	+
Start	822	End	6115
Name	OJ000221_16.0403.C7.o2.tm	Method	TBLASTX:Maize
Start	2274	End	4906
GI	none	Score	196
Exons	2274..2396, 2330..2398, 2492..2542, 2697..2753, 2701..2757, 2848..2892, 2849..2899, 3461..3565, 3464..3559, 4783..4905, 4838..4906		

Seq. No.	44987	Seq. ID	OJ000221_16.0403.C7
Gene No.	94993	Strand	+
Start	822	End	6115
Name	OJ000221_16.0403.C7.o1.tm	Method	TBLASTX:Maize
Start	5355	End	6115
GI	none	Score	81
Exons	5355..5468, 5370..5468, 5377..5472, 5380..5469, 5614..5667, 5616..5666, 5830..5928, 5831..5902, 5832..5927, 5987..6112, 6002..6115		

Seq. No.	44987	Seq. ID	OJ000221_16.0403.C7
Gene No.	94993	Strand	+
Start	822	End	6115
Name	OJ000221_16.0403.C7.o1.ts	Method	TBLASTX:Soybean
Start	5838	End	6091
GI	none	Score	70
Exons	5838..5927, 5838..5927, 5839..5928, 5839..5928, 5987..6091, 6004..6090		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94994	Strand	+
Start	414	End	5030
Name	OJ000221_16.0403.C8.o1.np	Method	AAT/NAP
Start	414	End	5027
GI	2499488	Score	2065
Exons	414..678, 898..1010, 1615..1803, 1892..1959, 2080..2163, 2406..2459, 2976..3056, 3143..3236, 3342..3415, 3483..3593,		

3684..3728, 3832..3888, 4010..4115, 4199..4315, 4409..4512,  
4628..4793, 4902..5027

GI Descrip. PYROPHOSPHATE--FRUCTOSE 6-PHOSPHATE 1-PHOSPHOTRANSFERASE ALPHA  
SUBUNIT (PFP) (6-PHOSPHOFRUCTOKINASE (PYROPHOSPHATE))  
(PYROPHOSPHATE-DEPENDENT 6-PHOSPHOFRUCTOSE-1-KINASE) (PPI-PFK)  
gi|483547|emb|CAA83682| (Z32849) pyrophosphate-dependent  
phosphofructokinase alpha subunit [Ricinus communis]

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94994	Strand	+
Start	414	End	5030
Name	OJ000221_16.0403.C8.o1.gp	Method	AAT/GAP
Start	502	End	1703
GI	65692_1.R1084	Score	634
Exons	502..678, 898..1013, 1617..1703		
GI Descrip.	'3790102 3.0e-51 (AF095521) pyrophosphate-dependent phosphofructokinase alpha subunit [Citrus X paradisi]'		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94994	Strand	+
Start	414	End	5030
Name	OJ000221_16.0403.C8.o1.gs	Method	GENSCAN
Start	506	End	5030
GI	none	Score	.91
Exons	506..678, 898..1010, 1615..1803, 1892..1959, 2080..2163, 2406..2459, 3143..3236, 3342..3415, 3483..3593, 3684..3728, 4199..4315, 4409..4512, 4628..4793, 4902..5030		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94994	Strand	+
Start	414	End	5030
Name	OJ000221_16.0403.C8.o2.gp	Method	AAT/GAP
Start	1709	End	3083
GI	LIB3434-047-P1-K1-G6	Score	631
Exons	1709..1803, 1892..1959, 2080..2163, 2406..2459, 2976..3083		
GI Descrip.	'2499488/sp Q41140 PFPA_RICCO 8.0e-60 PYROPHOSPHATE--FRUCTOSE 6-PHOSPHATE 1-PHOSPHOTRANSFERASE ALPHA SUBUNIT (PFP) (6-PHOSPHOFRUCTOKINASE (PYROPHOSPHATE)) (PYROPHOSPHATE-DEPENDENT 6-PHOSPHOFRUCTOSE-1-KINASE) (PPI-PFK) >gi_483547_emb_CAA83682_ (Z32849) pyrophosphate-dependent phosphofructokinase alpha subunit [Ricinus communis]'		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94995	Strand	+
Start	5146	End	5262
Name	OJ000221_16.0403.C8.o3.gp	Method	AAT/GAP
Start	5146	End	5262
GI	LIB3433-037-P1-K1-D6	Score	141
Exons	5146..5262		
GI Descrip.	'455458/gb L28995 RIC3H3M 9.0e-58 Oryza sativa 3-hydroxy-3-methylglutaryl coenzyme A reductase gene, complete cds'		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94996	Strand	+
Start	7466	End	11501
Name	OJ000221_16.0403.C8.o2.gs	Method	GENSCAN

Start	7466	End	11438
GI	none	Score	.73
Exons	7466..7594, 7987..8216, 8333..8407, 8497..8582, 8869..8975, 11307..11438		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94996	Strand	+
Start	7466	End	11501
Name	OJ000221_16.0403.C8.o4.gp	Method	AAT/GAP
Start	9498	End	10251
GI	LIB3433-031-P1-K1-C1	Score	612
Exons	9498..9523, 9636..9733, 9817..9904, 10104..10251		
GI Descrip..	'5630087/gb AAD45832.1 AC004876.5 6.0e-10 (AC004876) similar to predicted proteins AAB54240 (PID:g2088822) and S67138 (PID:g2132925) [Homo sapiens]'		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94996	Strand	+
Start	7466	End	11501
Name	OJ000221_16.0403.C8.o5.gp	Method	AAT/GAP
Start	11036	End	11501
GI	55842_1.R1084	Score	896
Exons	11036..11501		
GI Descrip.	'455458/gb L28995 RIC3H3M 9.0e-58 Oryza sativa 3-hydroxy-3-methylglutaryl coenzyme A reductase gene, complete cds'		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94997	Strand	+
Start	17719	End	22340
Name	OJ000221_16.0403.C8.o6.gp	Method	AAT/GAP
Start	17719	End	18131
GI	2428129	Score	713
Exons	17719..18131		
GI Descrip.	455458/gb L28995 RIC3H3M 9.0e-58 Oryza sativa 3-hydroxy-3-methylglutaryl coenzyme A reductase gene, complete cds		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94997	Strand	+
Start	17719	End	22340
Name	OJ000221_16.0403.C8.o2.np	Method	AAT/NAP
Start	17921	End	22340
GI	1346301	Score	2312
Exons	17921..18663, 20731..20912, 21526..21872, 22101..22340		
GI Descrip.	3-HYDROXY-3-METHYLGLUTARYL-COENZYME A REDUCTASE (HMG-COA REDUCTASE) gi 1071805 pir  S46314 hydroxymethylglutaryl CoA reductase - rice gi 455459 (L28995) 3-hydroxy-3-methylglutaryl coenzyme A reductase [Oryza sativa]		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94998	Strand	+
Start	31438	End	36810
Name	OJ000221_16.0403.C8.o5.gs	Method	GENSCAN
Start	31438	End	36800
GI	none	Score	.45
Exons	31438..31502, 31863..32050, 35155..35483, 35889..35943,		

36236..36800

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94998	Strand	+
Start	31438	End	36810
Name	OJ000221_16.0403.C8.o7.gp	Method	AAT/GAP
Start	35714	End	35967
GI	1631453	Score	464
Exons	35714..35967		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94998	Strand	+
Start	31438	End	36810
Name	OJ000221_16.0403.C8.o3.np	Method	AAT/NAP
Start	36392	End	36810
GI	7485086	Score	265
Exons	36392..36810		
GI Descrip.	hypothetical protein - Arabidopsis thaliana gi 2245139 emb CAB10560.1  (Z97344) hypothetical protein [Arabidopsis thaliana] gi 7268533 emb CAB78783.1  (AL161547) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94999	Strand	-
Start	27178	End	31056
Name	OJ000221_16.0403.C8.o1.tm	Method	TBLASTX:Maize
Start	483	End	5016
GI	none	Score	218
Exons	483..659, 503..694, 503..706, 895..1011, 895..1017, 896..1018, 897..1034, 1613..1804, 1614..1805, 1616..1822, 1886..1960, 1890..1961, 1891..1962, 2075..2173, 2079..2174, 2079..2174, 2399..2458, 2403..2459, 2964..3080, 2973..3059, 3141..3227, 3142..3219, 3142..3240, 3143..3241, 3341..3415, 3341..3418, 3357..3497, 3477..3593, 3482..3592, 3482..3595, 3483..3602, 3658..3729, 3680..3724, 3681..3731, 3693..3728, 3829..3888, 3831..3884, 4003..4032, 4010..4060, 4026..4115, 4028..4114, 4192..4320, 4199..4315, 4404..4511, 4408..4512, 4408..4512, 4409..4513, 4409..4531, 4622..4795, 4623..4808, 4628..4795, 4897..5013, 4899..5015, 4901..5014, 4915..5016		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94999	Strand	-
Start	27178	End	31056
Name	OJ000221_16.0403.C8.o1.ts	Method	TBLASTX:Soybean
Start	503	End	5009
GI	none	Score	171
Exons	503..694, 505..678, 869..1012, 895..1017, 896..1018, 1599..1802, 1613..1804, 1614..1805, 1640..1819, 1891..1962, 2077..2166, 2079..2165, 2403..2459, 2963..3058, 2973..3059, 3142..3240, 3143..3241, 3153..3251, 3341..3415, 3479..3592, 3482..3589, 3483..3602, 3677..3715, 3681..3731, 3828..3884, 3829..3888, 4003..4032, 4010..4060, 4026..4115, 4027..4143, 4028..4111, 4196..4291, 4198..4311, 4199..4315, 4408..4509, 4408..4512, 4409..4513, 4623..4808, 4628..4804, 4895..5008, 4899..5009		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94999	Strand	-

Start	27178	End	31056
Name	OJ000221_16.0403.C8.o3.tw	Method	TBLASTX:Wheat
Start	566	End	1714
GI	none	Score	190
Exons	566..694, 568..678, 895..1011, 896..1012, 896..1018, 1613..1714, 1614..1712, 1625..1714		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94999	Strand	-
Start	27178	End	31056
Name	OJ000221_16.0403.C8.o5.tc	Method	TBLASTX:Cress
Start	896	End	3056
GI	none	Score	92
Exons	896..1012, 1614..1805, 1614..1805, 1879..1962, 2077..2166, 2973..3002, 2994..3056		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94999	Strand	-
Start	27178	End	31056
Name	OJ000221_16.0403.C8.o1.tw	Method	TBLASTX:Wheat
Start	4404	End	4767
GI	none	Score	78
Exons	4404..4508, 4408..4512, 4409..4555, 4412..4513, 4623..4766, 4631..4765, 4633..4767		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94999	Strand	-
Start	27178	End	31056
Name	OJ000221_16.0403.C8.o3.tc	Method	TBLASTX:Cress
Start	4668	End	5139
GI	none	Score	201
Exons	4668..4808, 4673..4795, 4731..4817, 4899..5003, 4899..4979, 4901..4993, 5110..5139		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94999	Strand	-
Start	27178	End	31056
Name	OJ000221_16.0403.C8.o2.tw	Method	TBLASTX:Wheat
Start	4900	End	5120
GI	none	Score	178
Exons	4900..5013, 4901..5014, 4902..5015, 5051..5119, 5061..5120		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94999	Strand	-
Start	27178	End	31056
Name	OJ000221_16.0403.C8.o4.tc	Method	TBLASTX:Cress
Start	8334	End	10178
GI	none	Score	62
Exons	8334..8414, 8480..8581, 8867..8974, 8868..8978, 9161..9316, 9163..9285, 9442..9519, 9443..9523, 9627..9731, 9642..9734, 9818..9907, 9820..9903, 10101..10178		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94999	Strand	-
Start	27178	End	31056
Name	OJ000221_16.0403.C8.o6.tm	Method	TBLASTX:Maize
Start	8345	End	8581

GI	none	Score	80
Exons	8345..8410, 8346..8417, 8410..8544, 8480..8581, 8480..8581		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94999	Strand	-
Start	27178	End	31056
Name	OJ000221_16.0403.C8.o3.tm	Method	TBLASTX:Maize
Start	8867	End	9692
GI	none	Score	127
Exons	8867..8977, 8868..8978, 9159..9317, 9160..9285, 9161..9319, 9161..9325, 9425..9523, 9436..9519, 9627..9692		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94999	Strand	-
Start	27178	End	31056
Name	OJ000221_16.0403.C8.o4.ts	Method	TBLASTX:Soybean
Start	9161	End	9523
GI	none	Score	202
Exons	9161..9319, 9163..9285, 9434..9523, 9439..9519		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94999	Strand	-
Start	27178	End	31056
Name	OJ000221_16.0403.C8.o5.tm	Method	TBLASTX:Maize
Start	11449	End	13779
GI	none	Score	36
Exons	11449..11463, 11560..11622, 11562..11609, 11588..11635, 11589..11633, 11609..11668, 11650..11766, 11691..11777, 11735..11767, 11761..11790, 11765..11791, 11789..11824, 11789..11824, 11791..11826, 12557..12640, 12561..12641, 12561..12641, 12571..12645, 12620..12664, 12642..12665, 12643..12666, 12668..12865, 12738..12863, 12741..12869, 12746..12865, 13076..13327, 13079..13330, 13403..13450, 13408..13452, 13719..13769, 13720..13779, 13724..13771		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94999	Strand	-
Start	27178	End	31056
Name	OJ000221_16.0403.C8.o2.tc	Method	TBLASTX:Cress
Start	14396	End	14834
GI	none	Score	124
Exons	14396..14524, 14406..14525, 14625..14702, 14645..14824, 14763..14834		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94999	Strand	-
Start	27178	End	31056
Name	OJ000221_16.0403.C8.o3.ts	Method	TBLASTX:Soybean
Start	14423	End	14843
GI	none	Score	89
Exons	14423..14509, 14424..14492, 14489..14524, 14493..14537, 14646..14702, 14651..14821, 14745..14843, 14763..14843		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94999	Strand	-
Start	27178	End	31056
Name	OJ000221_16.0403.C8.o4.tm	Method	TBLASTX:Maize

Start	14426	End	14807
GI	none	Score	101
Exons	14426..14524, 14427..14525, 14625..14702, 14645..14806, 14760..14807		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94999	Strand	-
Start	27178	End	31056
Name	OJ000221_16.0403.C8.o1.tc	Method	TBLASTX:Cress
Start	18317	End	22325
GI	none	Score	395
Exons	18317..18664, 18328..18663, 18332..18664, 20728..20973, 20729..20914, 20773..20943, 21521..21874, 21522..21875, 21525..21875, 22098..22325, 22100..22321		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94999	Strand	-
Start	27178	End	31056
Name	OJ000221_16.0403.C8.o2.tm	Method	TBLASTX:Maize
Start	18317	End	22330
GI	none	Score	372
Exons	18317..18664, 18317..18472, 18328..18663, 18560..18664, 20728..20973, 20729..20914, 20731..20943, 21521..21874, 21522..21875, 22098..22325, 22100..22330		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94999	Strand	-
Start	27178	End	31056
Name	OJ000221_16.0403.C8.o2.ts	Method	TBLASTX:Soybean
Start	18317	End	22342
GI	none	Score	398
Exons	18317..18664, 18320..18463, 18328..18579, 20718..20846, 20728..20862, 20729..20887, 20843..20914, 20859..20900, 20875..20943, 21521..21874, 21522..21875, 21525..21881, 21772..21897, 21773..21880, 22098..22325, 22100..22342, 22100..22330		

Seq. No.	44988	Seq. ID	OJ000221_16.0403.C8
Gene No.	94999	Strand	-
Start	27178	End	31056
Name	OJ000221_16.0403.C8.o4.gs	Method	GENSCAN
Start	27178	End	31056
GI	none	Score	.59
Exons	27178..27334, 27524..27588, 28008..28096, 28108..28344, 28387..28483, 30375..30430, 30984..31056		

Seq. No.	44989	Seq. ID	OJ000221_16.0403.C9
Gene No.	95000	Strand	+
Start	117	End	633
Name	OJ000221_16.0403.C9.o1.gp	Method	AAT/GAP
Start	117	End	633
GI	2800496	Score	843
Exons	117..633		

Seq. No.	44989	Seq. ID	OJ000221_16.0403.C9
Gene No.	95001	Strand	+
Start	969	End	1272



Name	OJ000221_16.0403.C9.o2.gp	Method	AAT/GAP
Start	969	End	1272
GI	uC-osflcyp127g10a1	Score	561
Exons	969..1272		
GI Descrip.	'4176420/dbj BAA37167  2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	44990	Seq. ID	OJ000221_16.0403.C10
Gene No.	95002	Strand	+
Start	399	End	729
Name	OJ000221_16.0403.C10.o1.gs	Method	GENSCAN
Start	399	End	729
GI	none	Score	.4
Exons	399..506, 529..729		

Seq. No.	44990	Seq. ID	OJ000221_16.0403.C10
Gene No.	95003	Strand	-
Start	1822	End	2085
Name	OJ000221_16.0403.C10.o2.gs	Method	GENSCAN
Start	1822	End	2085
GI	none	Score	.6
Exons	1822..2085		

Seq. No.	44990	Seq. ID	OJ000221_16.0403.C10
Gene No.	95004	Strand	-
Start	2604	End	4191
Name	OJ000221_16.0403.C10.o1.np	Method	AAT/NAP
Start	2604	End	4191
GI	136140	Score	149
Exons	2604..2653, 3934..4191		
GI Descrip.	PUTATIVE AC9 TRANSPOSASE gi 72973 pir  TQZMCA probable transposase - maize transposon Ac9		

Seq. No.	44990	Seq. ID	OJ000221_16.0403.C10
Gene No.	95004	Strand	-
Start	2604	End	4191
Name	OJ000221_16.0403.C10.o1.tm	Method	TBLASTX:Maize
Start	3792	End	4120
GI	none	Score	121
Exons	3792..3845, 3942..4031, 3946..4119, 3949..4101, 3950..4120		

Seq. No.	44990	Seq. ID	OJ000221_16.0403.C10
Gene No.	95004	Strand	-
Start	2604	End	4191
Name	OJ000221_16.0403.C10.o1.ts	Method	TBLASTX:Soybean
Start	3961	End	4120
GI	none	Score	123
Exons	3961..4119, 3962..4120		

Seq. No.	44991	Seq. ID	OJ000211_10.0403.C1
Gene No.	95005	Strand	+
Start	180	End	353
Name	OJ000211_10.0403.C1.o1.gs	Method	GENSCAN
Start	180	End	353
GI	none	Score	.78
Exons	180..353		

Seq. No.	44992	Seq. ID	OJ000211_10.0403.C2
Gene No.	95006	Strand	+
Start	1	End	7265
Name	OJ000211_10.0403.C2.o1.np	Method	AAT/NAP
Start	1	End	6173
GI	4914331	Score	1171
Exons	1..208, 305..425, 879..962, 1041..1168, 3378..3695, 3864..3940, 4039..4095, 4475..4619, 4698..4840, 4992..5105, 5189..5256, 5580..5766, 5937..6173		
GI Descrip.	(AC005489) F14N23.17 [Arabidopsis thaliana]		

Seq. No.	44992	Seq. ID	OJ000211_10.0403.C2
Gene No.	95006	Strand	+
Start	1	End	7265
Name	OJ000211_10.0403.C2.o1.gs	Method	GENSCAN
Start	1041	End	7265
GI	none	Score	.72
Exons	1041..1168, 3333..3453, 3620..3695, 3864..3940, 4039..4095, 4475..4619, 4698..4870, 4992..5118, 5154..5256, 5556..5752, 6010..6153, 7063..7265		

Seq. No.	44992	Seq. ID	OJ000211_10.0403.C2
Gene No.	95006	Strand	+
Start	1	End	7265
Name	OJ000211_10.0403.C2.o1.gp	Method	AAT/GAP
Start	3859	End	4843
GI	2427714	Score	780
Exons	3859..3940, 4039..4095, 4475..4619, 4698..4843		
GI Descrip.	4803836/dbj BAA77516.1  1.0e-34 (AB026987) a dynamin-like protein ADL3 [Arabidopsis thaliana]		

Seq. No.	44992	Seq. ID	OJ000211_10.0403.C2
Gene No.	95007	Strand	+
Start	11637	End	13407
Name	OJ000211_10.0403.C2.o2.gp	Method	AAT/GAP
Start	11569	End	13292
GI	none	Score	655
Exons	11569..11829, 12802..12896, 13264..13292		

Seq. No.	44992	Seq. ID	OJ000211_10.0403.C2
Gene No.	95007	Strand	+
Start	11637	End	13407
Name	OJ000211_10.0403.C2.o2.gs	Method	GENSCAN
Start	11637	End	13407
GI	none	Score	.78
Exons	11637..11756, 13264..13407		

Seq. No.	44992	Seq. ID	OJ000211_10.0403.C2
Gene No.	95008	Strand	+
Start	13666	End	15708
Name	OJ000211_10.0403.C2.o3.gp	Method	AAT/GAP
Start	13666	End	15708
GI	4227 1.R1084	Score	1096
Exons	13666..13727, 15209..15708		
GI Descrip.	'6041757/gb AC011806.1 AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	44992	Seq. ID	OJ000211_10.0403.C2
Gene No.	95009	Strand	+
Start	25329	End	27590
Name	OJ000211_10.0403.C2.o6.gs	Method	GENSCAN
Start	25329	End	27590
GI	none	Score	.55
Exons	25329..25406, 26780..27089, 27323..27430, 27436..27590		

Seq. No.	44992	Seq. ID	OJ000211_10.0403.C2
Gene No.	95010	Strand	-
Start	13961	End	15319
Name	OJ000211_10.0403.C2.o3.gs	Method	GENSCAN
Start	13961	End	15319
GI	none	Score	.81
Exons	13961..14151, 15181..15319		

Seq. No.	44992	Seq. ID	OJ000211_10.0403.C2
Gene No.	95011	Strand	-
Start	17283	End	18882
Name	OJ000211_10.0403.C2.o3.ts	Method	TBLASTX:Soybean
Start	139	End	1168
GI	none	Score	67
Exons	139..207, 140..199, 181..207, 302..397, 304..396, 396..428, 876..965, 878..964, 1035..1151, 1040..1168		

Seq. No.	44992	Seq. ID	OJ000211_10.0403.C2
Gene No.	95011	Strand	-
Start	17283	End	18882
Name	OJ000211_10.0403.C2.o2.tc	Method	TBLASTX:Cress
Start	307	End	3450
GI	none	Score	131
Exons	307..426, 308..430, 308..427, 876..965, 878..964, 1035..1151, 1040..1168, 3376..3450		

Seq. No.	44992	Seq. ID	OJ000211_10.0403.C2
Gene No.	95011	Strand	-
Start	17283	End	18882
Name	OJ000211_10.0403.C2.o5.tm	Method	TBLASTX:Maize
Start	326	End	5658
GI	none	Score	114
Exons	326..397, 331..393, 395..427, 876..965, 878..964, 1034..1168, 1035..1151, 1040..1168, 3617..3706, 3640..3696, 3861..3944, 3863..3958, 3868..3960, 4025..4102, 4026..4106, 4036..4095, 4472..4507, 4564..4617, 4565..4618, 4697..4792, 4697..4792, 4807..4839, 4808..4858, 4992..5105, 5016..5105, 5180..5254, 5180..5254, 5521..5658		

Seq. No.	44992	Seq. ID	OJ000211_10.0403.C2
Gene No.	95011	Strand	-
Start	17283	End	18882
Name	OJ000211_10.0403.C2.o3.tc	Method	TBLASTX:Cress
Start	3460	End	17591
GI	none	Score	64
Exons	3460..3519, 17355..17591, 17355..17465, 17362..17409, 17455..17583		

Seq. No.	44992	Seq. ID	OJ000211_10.0403.C2
Gene No.	95011	Strand	-
Start	17283	End	18882
Name	OJ000211_10.0403.C2.o4.tc	Method	TBLASTX:Cress
Start	3863	End	5254
GI	none	Score	117
Exons	3863..3958, 3877..3945, 3882..3947, 4026..4097, 4036..4095, 4472..4618, 4697..4801, 4992..5105, 5054..5101, 5180..5215, 5213..5254		

Seq. No.	44992	Seq. ID	OJ000211_10.0403.C2
Gene No.	95011	Strand	-
Start	17283	End	18882
Name	OJ000211_10.0403.C2.o4.ts	Method	TBLASTX:Soybean
Start	3898	End	5257
GI	none	Score	81
Exons	3898..3960, 3899..3958, 4036..4095, 4038..4097, 4499..4618, 4697..4795, 4787..4858, 4978..5097, 4992..5105, 5054..5101, 5119..5250, 5180..5257, 5180..5257		

Seq. No.	44992	Seq. ID	OJ000211_10.0403.C2
Gene No.	95011	Strand	-
Start	17283	End	18882
Name	OJ000211_10.0403.C2.o3.tm	Method	TBLASTX:Maize
Start	14144	End	14423
GI	none	Score	106
Exons	14144..14416, 14268..14423		

Seq. No.	44992	Seq. ID	OJ000211_10.0403.C2
Gene No.	95011	Strand	-
Start	17283	End	18882
Name	OJ000211_10.0403.C2.o2.tw	Method	TBLASTX:Wheat
Start	14363	End	14695
GI	none	Score	76
Exons	14363..14518, 14364..14519, 14615..14695		

Seq. No.	44992	Seq. ID	OJ000211_10.0403.C2
Gene No.	95011	Strand	-
Start	17283	End	18882
Name	OJ000211_10.0403.C2.o5.gs	Method	GENSCAN
Start	17283	End	18873
GI	none	Score	.5
Exons	17283..17525, 17634..18227, 18355..18873		

Seq. No.	44992	Seq. ID	OJ000211_10.0403.C2
Gene No.	95011	Strand	-
Start	17283	End	18882
Name	OJ000211_10.0403.C2.o2.np	Method	AAT/NAP
Start	17292	End	18882
GI	7484856	Score	1632
Exons	17292..18882		
GI Descrip.	cellulase (EC 3.2.1.4) T21L14.7 - Arabidopsis thaliana gi 2702268 gb AAB91971.1  (AC003033) putative glucanase [Arabidopsis thaliana]		

Seq. No.	44992	Seq. ID	OJ000211_10.0403.C2
Gene No.	95011	Strand	-

Start	17283	End	18882
Name	OJ000211_10.0403.C2.o1.ts	Method	TBLASTX:Soybean
Start	17355	End	18420
GI	none	Score	137
Exons	17355..17693, 17362..17664, 17715..17855, 17785..17856, 17868..17939, 17958..18341, 17959..18021, 18148..18342, 18337..18420, 18356..18409		

Seq. No.	44992	Seq. ID	OJ000211_10.0403.C2
Gene No.	95011	Strand	-
Start	17283	End	18882
Name	OJ000211_10.0403.C2.o4.tm	Method	TBLASTX:Maize
Start	17355	End	17849
GI	none	Score	74
Exons	17355..17492, 17356..17493, 17547..17693, 17569..17679, 17715..17849		

Seq. No.	44992	Seq. ID	OJ000211_10.0403.C2
Gene No.	95011	Strand	-
Start	17283	End	18882
Name	OJ000211_10.0403.C2.o3.tw	Method	TBLASTX:Wheat
Start	17403	End	17703
GI	none	Score	51
Exons	17403..17525, 17455..17496, 17569..17703, 17571..17702		

Seq. No.	44992	Seq. ID	OJ000211_10.0403.C2
Gene No.	95011	Strand	-
Start	17283	End	18882
Name	OJ000211_10.0403.C2.o1.tc	Method	TBLASTX:Cress
Start	17592	End	18684
GI	none	Score	51
Exons	17592..17693, 17599..17679, 17742..17855, 17779..17844, 17868..17939, 17958..18044, 17959..18021, 18096..18341, 18337..18684, 18356..18409, 18461..18499, 18557..18607, 18592..18684		

Seq. No.	44992	Seq. ID	OJ000211_10.0403.C2
Gene No.	95011	Strand	-
Start	17283	End	18882
Name	OJ000211_10.0403.C2.o2.tm	Method	TBLASTX:Maize
Start	17994	End	18191
GI	none	Score	122
Exons	17994..18191, 17994..18191		

Seq. No.	44992	Seq. ID	OJ000211_10.0403.C2
Gene No.	95011	Strand	-
Start	17283	End	18882
Name	OJ000211_10.0403.C2.o1.tm	Method	TBLASTX:Maize
Start	18192	End	18768
GI	none	Score	130
Exons	18192..18257, 18261..18350, 18337..18768, 18454..18768		

Seq. No.	44992	Seq. ID	OJ000211_10.0403.C2
Gene No.	95011	Strand	-
Start	17283	End	18882
Name	OJ000211_10.0403.C2.o1.tw	Method	TBLASTX:Wheat
Start	18469	End	18765

GI	none	Score	118
Exons	18469..18516, 18559..18636, 18655..18765		
Seq. No.	44992	Seq. ID	OJ000211_10.0403.C2
Gene No.	95011	Strand	-
Start	17283	End	18882
Name	OJ000211_10.0403.C2.o2.ts	Method	TBLASTX:Soybean
Start	18557	End	18771
GI	none	Score	70
Exons	18557..18604, 18559..18771, 18671..18736		
Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95012	Strand	+
Start	426	End	6303
Name	OJ000211_10.0403.C3.o1.gs	Method	GENSCAN
Start	426	End	6303
GI	none	Score	.41
Exons	426..563, 690..836, 1331..1373, 3684..3751, 6193..6303		
Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95012	Strand	+
Start	426	End	6303
Name	OJ000211_10.0403.C3.o1.gp	Method	AAT/GAP
Start	2411	End	2552
GI	LIB3474-009-P1-K1-F11	Score	242
Exons	2411..2552		
GI Descrip.	'4455244/emb CAB36743.1  6.0e-11 (AL035523) MtN3-like protein [Arabidopsis thaliana]'		
Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95013	Strand	+
Start	6578	End	9456
Name	OJ000211_10.0403.C3.o2.gs	Method	GENSCAN
Start	6578	End	9456
GI	none	Score	.51
Exons	6578..6616, 6658..6778, 7153..7316, 7539..7633, 7717..7846, 7894..8125, 8585..8699, 8753..8890, 9254..9341, 9346..9456		
Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95014	Strand	+
Start	9844	End	9988
Name	OJ000211_10.0403.C3.o3.gs	Method	GENSCAN
Start	9844	End	9988
GI	none	Score	.79
Exons	9844..9849, 9962..9988		
Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95015	Strand	+
Start	12780	End	15241
Name	OJ000211_10.0403.C3.o2.np	Method	AAT/NAP
Start	12780	End	15241
GI	5922623	Score	418
Exons	12780..12860, 13238..13385, 13553..13628, 15224..15241		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016856 dbj BAA85199.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95016	Strand	+
Start	19740	End	22311
Name	OJ000211_10.0403.C3.o3.np	Method	AAT/NAP
Start	19740	End	22311
GI	3881978	Score	875
Exons	19740..20411, 20924..21013, 21152..21325, 22231..22311		
GI Descrip.	(Y11348) annexin-like protein [Medicago sativa]		

Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95016	Strand	+
Start	19740	End	22311
Name	OJ000211_10.0403.C3.o6.gs	Method	GENSCAN
Start	19740	End	21355
GI	none	Score	.91
Exons	19740..20621, 20924..21013, 21152..21355		

Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95016	Strand	+
Start	19740	End	22311
Name	OJ000211_10.0403.C3.o3.gp	Method	AAT/GAP
Start	20928	End	21502
GI	5038944	Score	761
Exons	20928..21013, 21152..21502		
GI Descrip.	3881978/emb CAA72183  5.0e-20 (Y11348) annexin-like protein [Medicago sativa]		

Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95017	Strand	+
Start	28971	End	34001
Name	OJ000211_10.0403.C3.o4.np	Method	AAT/NAP
Start	28971	End	32135
GI	4544434	Score	177
Exons	28971..29005, 30039..30072, 30157..30326, 30420..30477, 32112..32135		
GI Descrip.	(AC006955) putative DNA-directed RNA polymerase II subunit [Arabidopsis thaliana]		

Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95017	Strand	+
Start	28971	End	34001
Name	OJ000211_10.0403.C3.o8.gs	Method	GENSCAN
Start	29765	End	32066
GI	none	Score	.58
Exons	29765..29781, 30039..30072, 30121..30326, 30502..30685, 31892..31987, 32058..32066		

Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95017	Strand	+
Start	28971	End	34001
Name	OJ000211_10.0403.C3.o5.np	Method	AAT/NAP
Start	30503	End	34001
GI	7488380	Score	232
Exons	30503..30702, 33938..34001		
GI Descrip.	transcription factor HD-zip - Arabidopsis thaliana gi 1149569 emb CAA90703.1  (Z50851) HD-zip [Arabidopsis thaliana] gi 7270235 emb CAB80005.1  (AL161582) HD-zip		

## transcription factor (athb-8) [Arabidopsis thaliana]

Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95017	Strand	+
Start	28971	End	34001
Name	OJ000211_10.0403.C3.o6.gp	Method	AAT/GAP
Start	31709	End	31988
GI	53729 1.R1084	Score	246
Exons	31709..31785, 31892..31988		
GI Descrip.	'2104691 2.0e-10 (U92794) alpha glucosidase II, beta subunit [Mus musculus]'		

Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95018	Strand	-
Start	4024	End	13491
Name	OJ000211_10.0403.C3.o1.np	Method	AAT/NAP
Start	4024	End	13491
GI	4522008	Score	701
Exons	4024..4099, 10286..10428, 10516..10788, 10890..10921, 10949..11101, 11183..11495, 11582..11698, 13325..13491		
GI Descrip.	(AC007069) putative inositol polyphosphate-5-phosphatase [Arabidopsis thaliana]		

Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95018	Strand	-
Start	4024	End	13491
Name	OJ000211_10.0403.C3.o4.gs	Method	GENSCAN
Start	10236	End	13298
GI	none	Score	.91
Exons	10236..10428, 10516..10788, 10890..11101, 11183..11495, 11582..11689, 11785..11891, 12813..12893, 13221..13298		

Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95018	Strand	-
Start	4024	End	13491
Name	OJ000211_10.0403.C3.o2.gp	Method	AAT/GAP
Start	11344	End	12110
GI	28769 1.R1084	Score	854
Exons	11344..11495, 11582..11689, 11785..11891, 11991..12110		
GI Descrip.	'3881978/emb CAA72183  5.0e-20 (Y11348) annexin-like protein [Medicago sativa]'		

Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95019	Strand	-
Start	21970	End	25186
Name	OJ000211_10.0403.C3.o4.gp	Method	AAT/GAP
Start	21970	End	25088
GI	none	Score	1317
Exons	21970..22167, 23803..24040, 24822..25088		

Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95019	Strand	-
Start	21970	End	25186
Name	OJ000211_10.0403.C3.o5.gp	Method	AAT/GAP
Start	24869	End	25186
GI	none	Score	506
Exons	24869..25186		



Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95020	Strand	-
Start	33224	End	35954
Name	OJ000211_10.0403.C3.o2.tm	Method	TBLASTX:Maize
Start	10299	End	10742
GI	none	Score	101
Exons	10299..10418, 10327..10428, 10504..10710, 10506..10547, 10530..10742		

Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95020	Strand	-
Start	33224	End	35954
Name	OJ000211_10.0403.C3.o3.tc	Method	TBLASTX:Cress
Start	10308	End	11491
GI	none	Score	67
Exons	10308..10361, 10374..10418, 10387..10428, 10506..10538, 10578..10787, 10974..11057, 10979..11104, 11183..11341, 11393..11491		

Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95020	Strand	-
Start	33224	End	35954
Name	OJ000211_10.0403.C3.o3.ts	Method	TBLASTX:Soybean
Start	10719	End	11308
GI	none	Score	79
Exons	10719..10787, 10979..11104, 10980..11078, 11183..11308		

Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95020	Strand	-
Start	33224	End	35954
Name	OJ000211_10.0403.C3.o4.tm	Method	TBLASTX:Maize
Start	10979	End	11308
GI	none	Score	81
Exons	10979..11104, 10980..11102, 11183..11308		

Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95020	Strand	-
Start	33224	End	35954
Name	OJ000211_10.0403.C3.o1.tm	Method	TBLASTX:Maize
Start	19739	End	21340
GI	none	Score	465
Exons	19739..19843, 19776..20126, 19797..19877, 19958..20125, 19971..20126, 20148..20240, 20150..20230, 20241..20342, 20289..20456, 20921..21013, 20923..21015, 21151..21312, 21155..21337, 21176..21340		

Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95020	Strand	-
Start	33224	End	35954
Name	OJ000211_10.0403.C3.o1.ts	Method	TBLASTX:Soybean
Start	19739	End	21343
GI	none	Score	341
Exons	19739..19843, 19776..20126, 19953..20123, 19964..20125, 20178..20240, 20289..20456, 20921..21016, 20923..21015, 21152..21343, 21170..21340		

Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95020	Strand	-
Start	33224	End	35954
Name	OJ000211_10.0403.C3.o1.tw	Method	TBLASTX:Wheat
Start	19739	End	20033
GI	none	Score	337
Exons	19739..19843, 19770..20033, 19797..19877, 19964..20032		

Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95020	Strand	-
Start	33224	End	35954
Name	OJ000211_10.0403.C3.o1.tc	Method	TBLASTX:Cress
Start	19776	End	21349
GI	none	Score	248
Exons	19776..20156, 20148..20240, 21152..21349, 21155..21331, 21158..21340		

Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95020	Strand	-
Start	33224	End	35954
Name	OJ000211_10.0403.C3.o3.tw	Method	TBLASTX:Wheat
Start	20042	End	21307
GI	none	Score	101
Exons	20042..20125, 20043..20126, 20147..20182, 20148..20240, 20289..20417, 20306..20413, 21170..21307		

Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95020	Strand	-
Start	33224	End	35954
Name	OJ000211_10.0403.C3.o3.tm	Method	TBLASTX:Maize
Start	22001	End	25034
GI	none	Score	154
Exons	22001..22204, 22016..22183, 22024..22206, 22026..22184, 23802..24053, 23802..24053, 24819..24959, 24822..24959, 24988..25008, 24990..25034		

Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95020	Strand	-
Start	33224	End	35954
Name	OJ000211_10.0403.C3.o2.tw	Method	TBLASTX:Wheat
Start	30509	End	30715
GI	none	Score	266
Exons	30509..30703, 30523..30699, 30581..30715		

Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95020	Strand	-
Start	33224	End	35954
Name	OJ000211_10.0403.C3.o2.tc	Method	TBLASTX:Cress
Start	30529	End	30703
GI	none	Score	268
Exons	30529..30699, 30530..30703		

Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95020	Strand	-
Start	33224	End	35954
Name	OJ000211_10.0403.C3.o2.ts	Method	TBLASTX:Soybean
Start	30529	End	30703

GI	none	Score	262
Exons	30529..30702, 30530..30703, 30587..30703		
Seq. No.	44993	Seq. ID	OJ000211_10.0403.C3
Gene No.	95020	Strand	-
Start	33224	End	35954
Name	OJ000211_10.0403.C3.o9.gs	Method	GENSCAN
Start	33224	End	35954
GI	none	Score	.75
Exons	33224..33456, 33664..33929, 34902..35014, 35758..35954		

Seq. No.	44994	Seq. ID	OJ000211_10.0403.C4
Gene No.	95021	Strand	+
Start	2481	End	5641
Name	OJ000211_10.0403.C4.o2.np	Method	AAT/NAP
Start	2481	End	5641
GI	7339707	Score	55
Exons	2481..2562, 2596..2796, 3016..3449, 4216..4250, 4510..4649, 5261..5393, 5479..5641		

GI Descrip. (AP001539) hypothetical protein [Oryza sativa]

Seq. No.	44994	Seq. ID	OJ000211_10.0403.C4
Gene No.	95022	Strand	-
Start	1124	End	2204
Name	OJ000211_10.0403.C4.o1.np	Method	AAT/NAP
Start	1124	End	2204
GI	6598801	Score	65
Exons	1124..1220, 2032..2204		

GI Descrip. (AF024504) hypothetical protein [Arabidopsis thaliana]

Seq. No.	44995	Seq. ID	OJ000211_10.0403.C6
Gene No.	95023	Strand	+
Start	10014	End	10489
Name	OJ000211_10.0403.C6.o3.gs	Method	GENSCAN
Start	10014	End	10489
GI	none	Score	.64
Exons	10014..10129, 10321..10489		

Seq. No.	44995	Seq. ID	OJ000211_10.0403.C6
Gene No.	95024	Strand	+
Start	17442	End	28922
Name	OJ000211_10.0403.C6.o5.gs	Method	GENSCAN
Start	17442	End	28922
GI	none	Score	.54
Exons	17442..17519, 19071..19242, 19345..19423, 19751..19901, 20266..20370, 20855..20938, 21089..21604, 21809..22065, 22080..22884, 22916..23059, 23243..23888, 24111..24735, 24980..25090, 25126..25609, 26558..26586, 26707..26814, 26944..27000, 27215..27249, 27593..27836, 27984..28411, 28474..28922		

Seq. No.	44995	Seq. ID	OJ000211_10.0403.C6
Gene No.	95024	Strand	+
Start	17442	End	28922
Name	OJ000211_10.0403.C6.o1.np	Method	AAT/NAP
Start	22973	End	26007
GI	4416302	Score	3144

Exons 22973..26007  
GI Descrip. (AF105716) copia-type pol polyprotein [Zea mays]

Seq. No.	44995	Seq. ID	OJ000211_10.0403.C6
Gene No.	95025	Strand	-
Start	124	End	1827
Name	OJ000211_10.0403.C6.o1.gs	Method	GENSCAN
Start	124	End	1827
GI	none	Score	.5
Exons	124..358, 1487..1827		

Seq. No.	44995	Seq. ID	OJ000211_10.0403.C6
Gene No.	95026	Strand	-
Start	10750	End	10989
Name	OJ000211_10.0403.C6.o1.gp	Method	AAT/GAP
Start	10750	End	10989
GI	4879016	Score	386
Exons	10750..10989		
GI Descrip.	6041757/gb AC011806.1 AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence		

Seq. No.	44995	Seq. ID	OJ000211_10.0403.C6
Gene No.	95027	Strand	-
Start	11439	End	13798
Name	OJ000211_10.0403.C6.o4.gs	Method	GENSCAN
Start	11439	End	13798
GI	none	Score	.72
Exons	11439..11470, 12793..12930, 13013..13117, 13380..13499, 13714..13798		

Seq. No.	44995	Seq. ID	OJ000211_10.0403.C6
Gene No.	95028	Strand	-
Start	15645	End	15726
Name	OJ000211_10.0403.C6.o2.gp	Method	AAT/GAP
Start	15645	End	15726
GI	LIB3477-003-P1-K1-E9	Score	120
Exons	15645..15726		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	44995	Seq. ID	OJ000211_10.0403.C6
Gene No.	95029	Strand	-
Start	29065	End	30930
Name	OJ000211_10.0403.C6.o4.ts	Method	TBLASTX:Soybean
Start	20927	End	23077
GI	none	Score	76
Exons	20927..21049, 21113..21445, 22798..22863, 22943..23008, 23030..23077		

Seq. No.	44995	Seq. ID	OJ000211_10.0403.C6
Gene No.	95029	Strand	-
Start	29065	End	30930
Name	OJ000211_10.0403.C6.o6.tm	Method	TBLASTX:Maize
Start	22801	End	23158
GI	none	Score	104

Exons 22801..22893, 22803..22895, 22922..23005, 22930..22998,  
23015..23158, 23023..23151

Seq. No.	44995	Seq. ID	OJ000211_10.0403.C6
Gene No.	95029	Strand	-
Start	29065	End	30930
Name	OJ000211_10.0403.C6.o5.tw	Method	TBLASTX:Wheat
Start	22937	End	23251
GI	none	Score	73
Exons	22937..22993, 23015..23251, 23021..23152, 23032..23169		

Seq. No.	44995	Seq. ID	OJ000211_10.0403.C6
Gene No.	95029	Strand	-
Start	29065	End	30930
Name	OJ000211_10.0403.C6.o3.tm	Method	TBLASTX:Maize
Start	23161	End	23553
GI	none	Score	92
Exons	23161..23292, 23162..23290, 23280..23486, 23281..23502, 23281..23553, 23285..23551		

Seq. No.	44995	Seq. ID	OJ000211_10.0403.C6
Gene No.	95029	Strand	-
Start	29065	End	30930
Name	OJ000211_10.0403.C6.o1.tw	Method	TBLASTX:Wheat
Start	23323	End	23896
GI	none	Score	270
Exons	23323..23553, 23324..23569, 23609..23887, 23716..23886, 23717..23896		

Seq. No.	44995	Seq. ID	OJ000211_10.0403.C6
Gene No.	95029	Strand	-
Start	29065	End	30930
Name	OJ000211_10.0403.C6.o2.tm	Method	TBLASTX:Maize
Start	23558	End	24418
GI	none	Score	109
Exons	23558..23629, 23584..23631, 23629..24246, 23630..24247, 24241..24357, 24260..24418		

Seq. No.	44995	Seq. ID	OJ000211_10.0403.C6
Gene No.	95029	Strand	-
Start	29065	End	30930
Name	OJ000211_10.0403.C6.o3.ts	Method	TBLASTX:Soybean
Start	23738	End	24199
GI	none	Score	333
Exons	23738..24199, 23767..23928, 23768..23929, 23995..24147		

Seq. No.	44995	Seq. ID	OJ000211_10.0403.C6
Gene No.	95029	Strand	-
Start	29065	End	30930
Name	OJ000211_10.0403.C6.o1.tc	Method	TBLASTX:Cress
Start	23780	End	24196
GI	none	Score	192
Exons	23780..24196		

Seq. No.	44995	Seq. ID	OJ000211_10.0403.C6
Gene No.	95029	Strand	-
Start	29065	End	30930

Name	OJ000211_10.0403.C6.o3.tw	Method	TBLASTX:Wheat
Start	23981	End	24322
GI	none	Score	93
Exons	23981..24049, 24065..24211, 24074..24211, 24075..24218, 24232..24312, 24233..24322		

Seq. No.	44995	Seq. ID	OJ000211_10.0403.C6
Gene No.	95029	Strand	-
Start	29065	End	30930
Name	OJ000211_10.0403.C6.o4.tm	Method	TBLASTX:Maize
Start	24419	End	24732
GI	none	Score	281
Exons	24419..24667, 24439..24702, 24656..24730, 24658..24732		

Seq. No.	44995	Seq. ID	OJ000211_10.0403.C6
Gene No.	95029	Strand	-
Start	29065	End	30930
Name	OJ000211_10.0403.C6.o1.ts	Method	TBLASTX:Soybean
Start	24433	End	24984
GI	5509260	Score	390
Exons	24433..24774, 24434..24796, 24780..24911, 24783..24905, 24838..24915, 24914..24979, 24919..24984		

GI Descrip. -

Seq. No.	44995	Seq. ID	OJ000211_10.0403.C6
Gene No.	95029	Strand	-
Start	29065	End	30930
Name	OJ000211_10.0403.C6.o2.tw	Method	TBLASTX:Wheat
Start	24563	End	24979
GI	none	Score	90
Exons	24563..24652, 24659..24685, 24686..24796, 24694..24795, 24770..24901, 24780..24911, 24783..24896, 24896..24979, 24925..24966		

Seq. No.	44995	Seq. ID	OJ000211_10.0403.C6
Gene No.	95029	Strand	-
Start	29065	End	30930
Name	OJ000211_10.0403.C6.o5.tm	Method	TBLASTX:Maize
Start	24853	End	25216
GI	none	Score	68
Exons	24853..24915, 24861..24911, 24914..24979, 24919..24963, 24987..25079, 24987..25076, 25076..25213, 25078..25215, 25079..25216		

Seq. No.	44995	Seq. ID	OJ000211_10.0403.C6
Gene No.	95029	Strand	-
Start	29065	End	30930
Name	OJ000211_10.0403.C6.o4.tw	Method	TBLASTX:Wheat
Start	25148	End	25561
GI	none	Score	93
Exons	25148..25315, 25328..25561		

Seq. No.	44995	Seq. ID	OJ000211_10.0403.C6
Gene No.	95029	Strand	-
Start	29065	End	30930
Name	OJ000211_10.0403.C6.o1.tm	Method	TBLASTX:Maize
Start	25340	End	26087

GI	none	Score	314
Exons	25340..25570, 25342..25560, 25564..26001, 25566..26015, 25902..26060, 25904..26026, 26058..26087		

Seq. No.	44995	Seq. ID	OJ000211_10.0403.C6
Gene No.	95029	Strand	-
Start	29065	End	30930
Name	OJ000211_10.0403.C6.o2.ts	Method	TBLASTX:Soybean
Start	25349	End	26013
GI	none	Score	139
Exons	25349..25561, 25354..25539, 25564..25731, 25572..25724, 25765..26013, 25773..25940		

Seq. No.	44995	Seq. ID	OJ000211_10.0403.C6
Gene No.	95029	Strand	-
Start	29065	End	30930
Name	OJ000211_10.0403.C6.o6.tw	Method	TBLASTX:Wheat
Start	25573	End	25953
GI	none	Score	107
Exons	25573..25746, 25765..25953		

Seq. No.	44995	Seq. ID	OJ000211_10.0403.C6
Gene No.	95029	Strand	-
Start	29065	End	30930
Name	OJ000211_10.0403.C6.o2.np	Method	AAT/NAP
Start	29065	End	30930
GI	6815053	Score	249
Exons	29065..29119, 29912..30274, 30783..30930		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	44996	Seq. ID	OJ000211_10.0403.C7
Gene No.	95030	Strand	+
Start	251	End	689
Name	OJ000211_10.0403.C7.o1.np	Method	AAT/NAP
Start	251	End	689
GI	7484955	Score	79
Exons	251..689		
GI Descrip.	extensin homolog F17I5.160 - Arabidopsis thaliana gi 3297821 emb CAA19879.1  (AL031032) extensin-like protein [Arabidopsis thaliana] gi 7270346 emb CAB80114.1  (AL161584) extensin-like protein [Arabidopsis thaliana]		

Seq. No.	44996	Seq. ID	OJ000211_10.0403.C7
Gene No.	95031	Strand	-
Start	747	End	907
Name	OJ000211_10.0403.C7.o1.gs	Method	GENSCAN
Start	747	End	907
GI	none	Score	.89
Exons	747..907		

Seq. No.	44997	Seq. ID	OJ000211_10.0403.C8
Gene No.	95032	Strand	+
Start	913	End	1148
Name	OJ000211_10.0403.C8.o1.np	Method	AAT/NAP
Start	913	End	1148
GI	7340924	Score	70
Exons	913..1148		

GI Descrip. (AP001550) hypothetical protein [Oryza sativa]

Seq. No.	44997	Seq. ID	OJ000211_10.0403.C8
Gene No.	95033	Strand	+
Start	4585	End	4959
Name	OJ000211_10.0403.C8.o1.gp	Method	AAT/GAP
Start	4493	End	4959
GI	4716622	Score	861
Exons	4493..4959		

Seq. No.	44997	Seq. ID	OJ000211_10.0403.C8
Gene No.	95033	Strand	+
Start	4585	End	4959
Name	OJ000211_10.0403.C8.o2.gs	Method	GENSCAN
Start	4585	End	4944
GI	none	Score	.76
Exons	4585..4944		

Seq. No.	44998	Seq. ID	OJ000211_03.0411.C3
Gene No.	95034	Strand	+
Start	185	End	334
Name	OJ000211_03.0411.C3.o1.gs	Method	GENSCAN
Start	185	End	334
GI	none	Score	.87
Exons	185..334		

Seq. No.	44998	Seq. ID	OJ000211_03.0411.C3
Gene No.	95035	Strand	-
Start	980	End	8621
Name	OJ000211_03.0411.C3.o2.gs	Method	GENSCAN
Start	980	End	8621
GI	none	Score	.73
Exons	980..1483, 1614..1769, 2607..2734, 5644..5673, 6667..6671, 8275..8621		

Seq. No.	44999	Seq. ID	OJ000211_03.0411.C4
Gene No.	95036	Strand	+
Start	1800	End	1877
Name	OJ000211_03.0411.C4.o1.np	Method	AAT/NAP
Start	1800	End	1877
GI	6721547	Score	67
Exons	1800..1877		

GI Descrip. (AP001073) Similar to Oryza sativa gene for Pib. (AB013448)

Seq. No.	44999	Seq. ID	OJ000211_03.0411.C4
Gene No.	95037	Strand	+
Start	2157	End	4044
Name	OJ000211_03.0411.C4.o1.gs	Method	GENSCAN
Start	2157	End	4044
GI	none	Score	.64
Exons	2157..2159, 3116..3228, 3434..3666, 3730..3836, 3886..4044		

Seq. No.	44999	Seq. ID	OJ000211_03.0411.C4
Gene No.	95038	Strand	+
Start	4953	End	5042
Name	OJ000211_03.0411.C4.o4.np	Method	AAT/NAP
Start	4953	End	5042



GI	4680183	Score	130
Exons	4953..5042		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		
Seq. No.	44999	Seq. ID	OJ000211_03.0411.C4
Gene No.	95039	Strand	-
Start	2355	End	4920
Name	OJ000211_03.0411.C4.o2.np	Method	AAT/NAP
Start	2355	End	3796
GI	7487592	Score	164
Exons	2355..2492, 3198..3796		
GI Descrip.	hypothetical protein T32A16.60 - Arabidopsis thaliana gi 4972093 emb CAB43889.1  (AL078468) putative protein [Arabidopsis thaliana] gi 7269238 emb CAB81307.1  (AL161560) putative protein [Arabidopsis thaliana]		

Seq. No.	44999	Seq. ID	OJ000211_03.0411.C4
Gene No.	95039	Strand	-
Start	2355	End	4920
Name	OJ000211_03.0411.C4.o3.np	Method	AAT/NAP
Start	2858	End	4920
GI	6721561	Score	85
Exons	2858..2900, 4814..4920		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6815086 dbj BAA90372.1  (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	44999	Seq. ID	OJ000211_03.0411.C4
Gene No.	95039	Strand	-
Start	2355	End	4920
Name	OJ000211_03.0411.C4.o2.gs	Method	GENSCAN
Start	4617	End	4920
GI	none	Score	.57
Exons	4617..4796, 4816..4920		

Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95040	Strand	+
Start	163	End	1611
Name	OJ000211_03.0411.C5.o1.gs	Method	GENSCAN
Start	163	End	1611
GI	none	Score	.56
Exons	163..275, 408..614, 1578..1611		

Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95041	Strand	+
Start	3450	End	4000
Name	OJ000211_03.0411.C5.o2.np	Method	AAT/NAP
Start	3450	End	4000
GI	2980770	Score	198
Exons	3450..4000		
GI Descrip.	(AL022198) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95042	Strand	+
Start	11042	End	11577

Name	OJ000211_03.0411.C5.o4.np	Method	AAT/NAP
Start	11042	End	11577
GI	6136119	Score	757
Exons	11042..11577		
GI Descrip.	UDP-GLUCOSE 6-DEHYDROGENASE (UDP-GLC DEHYDROGENASE) (UDP-GLCDH) (UDPGDH) gi 1518540 (U53418) UDP-glucose dehydrogenase [Glycine max]		

Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95042	Strand	+
Start	11042	End	11577
Name	OJ000211_03.0411.C5.o5.gs	Method	GENSCAN
Start	11042	End	11566
GI	none	Score	.92
Exons	11042..11566		

Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95043	Strand	-
Start	23	End	1078
Name	OJ000211_03.0411.C5.o1.np	Method	AAT/NAP
Start	23	End	1078
GI	81286	Score	273
Exons	23..237, 444..542, 664..1078		
GI Descrip.	extensin - Volvox carteri (fragment) gi 21992 emb CAA46283  (X65165) extensin [Volvox carteri]		

Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95044	Strand	-
Start	4041	End	4448
Name	OJ000211_03.0411.C5.o3.gs	Method	GENSCAN
Start	4041	End	4448
GI	none	Score	.84
Exons	4041..4448		

Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95045	Strand	-
Start	4759	End	11577
Name	OJ000211_03.0411.C5.o6.tm	Method	TBLASTX:Maize
Start	3439	End	4112
GI	none	Score	97
Exons	3439..3534, 3439..3561, 3449..3559, 3603..3650, 3603..3671, 3604..3708, 3693..3815, 3694..3837, 3854..3877, 3854..3889, 3878..3985, 3880..3984, 3923..3988, 4017..4037, 4073..4105, 4073..4105, 4074..4112		

Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95045	Strand	-
Start	4759	End	11577
Name	OJ000211_03.0411.C5.o4.gs	Method	GENSCAN
Start	4759	End	10748
GI	none	Score	.42
Exons	4759..4931, 5342..5564, 5673..6182, 6509..6589, 6738..6850, 7839..8014, 8113..9271, 9481..10199, 10720..10748		

Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95045	Strand	-
Start	4759	End	11577

Name	OJ000211_03.0411.C5.o3.np	Method	AAT/NAP
Start	5285	End	11277
GI	6466937	Score	2220
Exons	5285..9604, 10957..11277		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95045	Strand	-
Start	4759	End	11577
Name	OJ000211_03.0411.C5.o5.tm	Method	TBLASTX:Maize
Start	5499	End	5952
GI	none	Score	156
Exons	5499..5579, 5605..5952, 5643..5951		

Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95045	Strand	-
Start	4759	End	11577
Name	OJ000211_03.0411.C5.o6.tw	Method	TBLASTX:Wheat
Start	5538	End	5807
GI	none	Score	81
Exons	5538..5807, 5572..5796		

Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95045	Strand	-
Start	4759	End	11577
Name	OJ000211_03.0411.C5.o2.tw	Method	TBLASTX:Wheat
Start	5808	End	6395
GI	none	Score	126
Exons	5808..5957, 6003..6395, 6004..6306		

Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95045	Strand	-
Start	4759	End	11577
Name	OJ000211_03.0411.C5.o2.tm	Method	TBLASTX:Maize
Start	6013	End	6650
GI	none	Score	224
Exons	6013..6213, 6015..6488, 6015..6650, 6442..6564		

Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95045	Strand	-
Start	4759	End	11577
Name	OJ000211_03.0411.C5.o2.ts	Method	TBLASTX:Soybean
Start	6243	End	6626
GI	none	Score	122
Exons	6243..6626, 6334..6576, 6357..6620		

Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95045	Strand	-
Start	4759	End	11577
Name	OJ000211_03.0411.C5.o4.tw	Method	TBLASTX:Wheat
Start	6483	End	6881
GI	none	Score	91
Exons	6483..6881, 6484..6720		

Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95045	Strand	-

Start	4759	End	11577
Name	OJ000211_03.0411.C5.o7.tm	Method	TBLASTX:Maize
Start	6651	End	7050
GI	none	Score	144
Exons	6651..6881, 6903..6944, 6940..7050		
Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95045	Strand	-
Start	4759	End	11577
Name	OJ000211_03.0411.C5.o3.tm	Method	TBLASTX:Maize
Start	7055	End	7599
GI	none	Score	327
Exons	7055..7591, 7078..7596, 7078..7599		
Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95045	Strand	-
Start	4759	End	11577
Name	OJ000211_03.0411.C5.o5.tw	Method	TBLASTX:Wheat
Start	7229	End	7629
GI	none	Score	134
Exons	7229..7594, 7261..7629		
Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95045	Strand	-
Start	4759	End	11577
Name	OJ000211_03.0411.C5.o3.ts	Method	TBLASTX:Soybean
Start	7342	End	7701
GI	none	Score	83
Exons	7342..7701, 7355..7594, 7646..7690		
Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95045	Strand	-
Start	4759	End	11577
Name	OJ000211_03.0411.C5.o10.tm	Method	TBLASTX:Maize
Start	7603	End	7768
GI	none	Score	80
Exons	7603..7767, 7646..7768		
Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95045	Strand	-
Start	4759	End	11577
Name	OJ000211_03.0411.C5.o3.tw	Method	TBLASTX:Wheat
Start	7678	End	8144
GI	none	Score	169
Exons	7678..7971, 7682..7972, 7971..8144, 7972..8061		
Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95045	Strand	-
Start	4759	End	11577
Name	OJ000211_03.0411.C5.o4.tm	Method	TBLASTX:Maize
Start	7783	End	8252
GI	none	Score	95
Exons	7783..7980, 7808..7972, 7971..8252, 7972..8250		
Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95045	Strand	-
Start	4759	End	11577

Name	OJ000211_03.0411.C5.o4.ts	Method	TBLASTX:Soybean
Start	7810	End	8123
GI	none	Score	90
Exons	7810..7971, 7974..8123		
Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95045	Strand	-
Start	4759	End	11577
Name	OJ000211_03.0411.C5.o9.tm	Method	TBLASTX:Maize
Start	8364	End	8702
GI	none	Score	91
Exons	8364..8702, 8427..8612		
Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95045	Strand	-
Start	4759	End	11577
Name	OJ000211_03.0411.C5.o8.tm	Method	TBLASTX:Maize
Start	8823	End	9302
GI	none	Score	86
Exons	8823..9029, 9130..9246, 9144..9302		
Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95045	Strand	-
Start	4759	End	11577
Name	OJ000211_03.0411.C5.o1.ts	Method	TBLASTX:Soybean
Start	11029	End	11577
GI	none	Score	671
Exons	11029..11487, 11030..11482, 11476..11577, 11480..11575		
Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95045	Strand	-
Start	4759	End	11577
Name	OJ000211_03.0411.C5.o1.tc	Method	TBLASTX:Cress
Start	11038	End	11577
GI	none	Score	682
Exons	11038..11487, 11039..11482, 11489..11575, 11500..11577		
Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95045	Strand	-
Start	4759	End	11577
Name	OJ000211_03.0411.C5.o1.tw	Method	TBLASTX:Wheat
Start	11038	End	11406
GI	none	Score	259
Exons	11038..11172, 11039..11215, 11215..11406, 11216..11404		
Seq. No.	45000	Seq. ID	OJ000211_03.0411.C5
Gene No.	95045	Strand	-
Start	4759	End	11577
Name	OJ000211_03.0411.C5.o1.tm	Method	TBLASTX:Maize
Start	11038	End	11577
GI	none	Score	709
Exons	11038..11487, 11039..11488, 11488..11577, 11489..11575		
Seq. No.	45001	Seq. ID	OJ000211_03.0411.C6
Gene No.	95046	Strand	+
Start	1	End	12521
Name	OJ000211_03.0411.C6.o1.np	Method	AAT/NAP

Start	1	End	805
GI	6136119	Score	1166
Exons	1..805		
GI Descrip.	UDP-GLUCOSE 6-DEHYDROGENASE (UDP-GLC DEHYDROGENASE) (UDP-GLCDH) (UDPGDH) gi 1518540 (U53418) UDP-glucose dehydrogenase [Glycine max]		

Seq. No.	45001	Seq. ID	OJ000211_03.0411.C6
Gene No.	95046	Strand	+
Start	1	End	12521
Name	OJ000211_03.0411.C6.o2.np	Method	AAT/NAP
Start	1	End	12521
GI	7340868	Score	213
Exons	1..103, 620..886, 2783..2950, 10338..10525, 10904..11029, 12419..12521		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	45001	Seq. ID	OJ000211_03.0411.C6
Gene No.	95046	Strand	+
Start	1	End	12521
Name	OJ000211_03.0411.C6.o1.gs	Method	GENSCAN
Start	80	End	808
GI	none	Score	1
Exons	80..808		

Seq. No.	45001	Seq. ID	OJ000211_03.0411.C6
Gene No.	95046	Strand	+
Start	1	End	12521
Name	OJ000211_03.0411.C6.o2.gs	Method	GENSCAN
Start	1584	End	4447
GI	none	Score	.75
Exons	1584..1861, 2762..3145, 3204..3442, 3841..3936, 4089..4447		

Seq. No.	45001	Seq. ID	OJ000211_03.0411.C6
Gene No.	95047	Strand	-
Start	6250	End	8960
Name	OJ000211_03.0411.C6.o3.gs	Method	GENSCAN
Start	6250	End	8960
GI	none	Score	.47
Exons	6250..7313, 8263..8380, 8922..8960		

Seq. No.	45001	Seq. ID	OJ000211_03.0411.C6
Gene No.	95048	Strand	-
Start	12226	End	12673
Name	OJ000211_03.0411.C6.o1.tc	Method	TBLASTX:Cress
Start	1	End	810
GI	none	Score	701
Exons	1..474, 2..472, 476..799, 487..615, 673..810		

Seq. No.	45001	Seq. ID	OJ000211_03.0411.C6
Gene No.	95048	Strand	-
Start	12226	End	12673
Name	OJ000211_03.0411.C6.o1.ts	Method	TBLASTX:Soybean
Start	1	End	805
GI	none	Score	1189
Exons	1..615, 2..805, 569..682, 673..804		

Seq. No.	45001	Seq. ID	OJ000211_03.0411.C6
Gene No.	95048	Strand	-
Start	12226	End	12673
Name	OJ000211_03.0411.C6.o1.tm	Method	TBLASTX:Maize
Start	1	End	805
GI	none	Score	1215
Exons	1..618, 2..805, 575..682, 673..804		

Seq. No.	45001	Seq. ID	OJ000211_03.0411.C6
Gene No.	95048	Strand	-
Start	12226	End	12673
Name	OJ000211_03.0411.C6.o1.tw	Method	TBLASTX:Wheat
Start	136	End	532
GI	none	Score	654
Exons	136..531, 137..532		

Seq. No.	45001	Seq. ID	OJ000211_03.0411.C6
Gene No.	95048	Strand	-
Start	12226	End	12673
Name	OJ000211_03.0411.C6.o3.tw	Method	TBLASTX:Wheat
Start	659	End	805
GI	none	Score	197
Exons	659..805, 673..804		

Seq. No.	45001	Seq. ID	OJ000211_03.0411.C6
Gene No.	95048	Strand	-
Start	12226	End	12673
Name	OJ000211_03.0411.C6.o2.tw	Method	TBLASTX:Wheat
Start	12169	End	12472
GI	none	Score	193
Exons	12169..12471, 12227..12472		

Seq. No.	45001	Seq. ID	OJ000211_03.0411.C6
Gene No.	95048	Strand	-
Start	12226	End	12673
Name	OJ000211_03.0411.C6.o2.ts	Method	TBLASTX:Soybean
Start	12223	End	12472
GI	none	Score	229
Exons	12223..12471, 12224..12472		

Seq. No.	45001	Seq. ID	OJ000211_03.0411.C6
Gene No.	95048	Strand	-
Start	12226	End	12673
Name	OJ000211_03.0411.C6.o3.np	Method	AAT/NAP
Start	12226	End	12673
GI	4567215	Score	335
Exons	12226..12673		
GI Descrip.	(AC007113) putative presenilin [Arabidopsis thaliana]		

Seq. No.	45002	Seq. ID	OJ000211_03.0411.C7
Gene No.	95049	Strand	-
Start	58	End	1448
Name	OJ000211_03.0411.C7.o1.gs	Method	GENSCAN
Start	58	End	1448
GI	none	Score	.79
Exons	58..1054, 1073..1244, 1342..1448		

Seq. No.	45002	Seq. ID	OJ000211_03.0411.C7
Gene No.	95049	Strand	-
Start	58	End	1448
Name	OJ000211_03.0411.C7.o1.gp	Method	AAT/GAP
Start	649	End	889
GI	2427808	Score	370
Exons	649..889		

Seq. No.	45003	Seq. ID	OJ000211_03.0411.C8
Gene No.	95050	Strand	-
Start	1	End	3090
Name	OJ000211_03.0411.C8.o1.gp	Method	AAT/GAP
Start	1	End	1906
GI	2427808	Score	469
Exons	1..25, 136..167, 1663..1906		

Seq. No.	45003	Seq. ID	OJ000211_03.0411.C8
Gene No.	95050	Strand	-
Start	1	End	3090
Name	OJ000211_03.0411.C8.o1.np	Method	AAT/NAP
Start	1	End	3090
GI	6721547	Score	72
Exons	1..70, 2996..3090		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	45004	Seq. ID	OJ000211_03.0411.C9
Gene No.	95051	Strand	+
Start	232	End	506
Name	OJ000211_03.0411.C9.o1.gs	Method	GENSCAN
Start	232	End	506
GI	none	Score	.82
Exons	232..301, 391..506		

Seq. No.	45004	Seq. ID	OJ000211_03.0411.C9
Gene No.	95052	Strand	+
Start	3966	End	5790
Name	OJ000211_03.0411.C9.o1.np	Method	AAT/NAP
Start	3966	End	5790
GI	5042463	Score	183
Exons	3966..3995, 5470..5623, 5672..5790		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	45004	Seq. ID	OJ000211_03.0411.C9
Gene No.	95053	Strand	+
Start	9565	End	10059
Name	OJ000211_03.0411.C9.o1.gp	Method	AAT/GAP
Start	9565	End	10059
GI	none	Score	883
Exons	9565..10059		

Seq. No.	45004	Seq. ID	OJ000211_03.0411.C9
Gene No.	95054	Strand	-
Start	1134	End	3030
Name	OJ000211_03.0411.C9.o2.gs	Method	GENSCAN
Start	1134	End	3030
GI	none	Score	.55
Exons	1134..1390, 1735..1876, 3001..3030		



Seq. No.	45004	Seq. ID	OJ000211_03.0411.C9
Gene No.	95055	Strand	-
Start	7948	End	10008
Name	OJ000211_03.0411.C9.o4.gs	Method	GENSCAN
Start	7948	End	10008
GI	none	Score	.46
Exons	7948..8139, 8770..8825, 9152..9268, 9753..10008		

Seq. No.	45004	Seq. ID	OJ000211_03.0411.C9
Gene No.	95056	Strand	-
Start	9931	End	10081
Name	OJ000211_03.0411.C9.o2.np	Method	AAT/NAP
Start	9931	End	10081
GI	7509981	Score	54
Exons	9931..10081		
GI Descrip.	hypothetical protein Y48B6A.6 - Caenorhabditis elegans gi 5824799 emb CAB54442.1  (AL110490) predicted using Genefinder [Caenorhabditis elegans]		

Seq. No.	45005	Seq. ID	OJ000211_03.0411.C10
Gene No.	95057	Strand	+
Start	1945	End	6389
Name	OJ000211_03.0411.C10.o1.gs	Method	GENSCAN
Start	1945	End	6389
GI	none	Score	.54
Exons	1945..2027, 2184..2323, 2461..2616, 4764..4832, 4846..4984, 5515..5611, 6204..6389		

Seq. No.	45005	Seq. ID	OJ000211_03.0411.C10
Gene No.	95058	Strand	+
Start	13376	End	14768
Name	OJ000211_03.0411.C10.o2.np	Method	AAT/NAP
Start	13346	End	14768
GI	3176874	Score	1623
Exons	13346..14768		
GI Descrip.	(AF065639) cucumisin-like serine protease [Arabidopsis thaliana]		

Seq. No.	45005	Seq. ID	OJ000211_03.0411.C10
Gene No.	95058	Strand	+
Start	13376	End	14768
Name	OJ000211_03.0411.C10.o2.gp	Method	AAT/GAP
Start	13350	End	13874
GI	42918_1.R1084	Score	1042
Exons	13350..13874		
GI Descrip.	'1771160/emb CAA67429  7.0e-36 (X98929) SBT1 [Lycopersicon esculentum] >gi_3687305_emb_CAA06999.1_ (AJ006378) subtilisin-like protease [Lycopersicon esculentum]'		

Seq. No.	45005	Seq. ID	OJ000211_03.0411.C10
Gene No.	95058	Strand	+
Start	13376	End	14768
Name	OJ000211_03.0411.C10.o3.gs	Method	GENSCAN
Start	13376	End	14733
GI	none	Score	.8
Exons	13376..14733		

Seq. No.	45005	Seq. ID	OJ000211_03.0411.C10
Gene No.	95059	Strand	-
Start	685	End	2703
Name	OJ000211_03.0411.C10.o1.np	Method	AAT/NAP
Start	685	End	2703
GI	5257266	Score	394
Exons	685..703, 2244..2703		
GI Descrip.	(AP000364) EST C99024(E4337) corresponds to a region of the predicted gene.; Similar to Silk moth; silkworm final instar larvae posterior. (D83241) [Oryza sativa]		

Seq. No.	45005	Seq. ID	OJ000211_03.0411.C10
Gene No.	95060	Strand	-
Start	9141	End	9404
Name	OJ000211_03.0411.C10.o1.gp	Method	AAT/GAP
Start	7863	End	8034
GI	uC-osflcyp039h04b1	Score	302
Exons	7863..8034		
GI Descrip.	'1617274/emb CAA96522  1.0e-09 (Z72152) AMP-binding protein [Brassica napus]'		

Seq. No.	45005	Seq. ID	OJ000211_03.0411.C10
Gene No.	95060	Strand	-
Start	9141	End	9404
Name	OJ000211_03.0411.C10.o2.gs	Method	GENSCAN
Start	9141	End	9404
GI	none	Score	.69
Exons	9141..9404		

Seq. No.	45005	Seq. ID	OJ000211_03.0411.C10
Gene No.	95061	Strand	-
Start	13447	End	14767
Name	OJ000211_03.0411.C10.o1.tw	Method	TBLASTX:Wheat
Start	13447	End	13810
GI	none	Score	84
Exons	13447..13497, 13448..13498, 13451..13810, 13465..13743, 13538..13810		

Seq. No.	45005	Seq. ID	OJ000211_03.0411.C10
Gene No.	95061	Strand	-
Start	13447	End	14767
Name	OJ000211_03.0411.C10.o1.tc	Method	TBLASTX:Cress
Start	13448	End	14767
GI	none	Score	61
Exons	13448..13492, 13496..13708, 13654..13704, 13724..14767, 13724..13939, 13726..13986, 14029..14166, 14230..14763		

Seq. No.	45005	Seq. ID	OJ000211_03.0411.C10
Gene No.	95061	Strand	-
Start	13447	End	14767
Name	OJ000211_03.0411.C10.o1.ts	Method	TBLASTX:Soybean
Start	13448	End	14761
GI	none	Score	55
Exons	13448..13492, 13486..13584, 13496..13987, 13526..13915, 13654..13986, 14050..14166, 14072..14494, 14230..14472, 14503..14760, 14504..14761		

Seq. No.	45005	Seq. ID	OJ000211_03.0411.C10
Gene No.	95061	Strand	
Start	13447	End	14767
Name	OJ000211_03.0411.C10.o1.tm	Method	TBLASTX:Maize
Start	13448	End	14437
GI	none	Score	61
Exons	13448..13498, 13495..13986, 13499..14437, 14029..14166, 14105..14353, 14227..14430		

Seq. No.	45005	Seq. ID	OJ000211_03.0411.C10
Gene No.	95061	Strand	
Start	13447	End	14767
Name	OJ000211_03.0411.C10.o2.tw	Method	TBLASTX:Wheat
Start	14062	End	14596
GI	none	Score	81
Exons	14062..14124, 14075..14152, 14125..14166, 14126..14188, 14219..14545, 14230..14472, 14489..14596		

Seq. No.	45005	Seq. ID	OJ000211_03.0411.C10
Gene No.	95061	Strand	
Start	13447	End	14767
Name	OJ000211_03.0411.C10.o2.tm	Method	TBLASTX:Maize
Start	14483	End	14767
GI	none	Score	419
Exons	14483..14767, 14503..14766		

Seq. No.	45006	Seq. ID	OJ000211_03.0411.C11
Gene No.	95062	Strand	+
Start	1	End	652
Name	OJ000211_03.0411.C11.o1.np	Method	AAT/NAP
Start	1	End	649
GI	3176874	Score	531
Exons	1..342, 379..649		
GI Descrip.	(AF065639) cucumisin-like serine protease [Arabidopsis thaliana]		

Seq. No.	45006	Seq. ID	OJ000211_03.0411.C11
Gene No.	95062	Strand	+
Start	1	End	652
Name	OJ000211_03.0411.C11.o1.gs	Method	GENSCAN
Start	50	End	652
GI	none	Score	.98
Exons	50..652		

Seq. No.	45006	Seq. ID	OJ000211_03.0411.C11
Gene No.	95063	Strand	+
Start	1752	End	2162
Name	OJ000211_03.0411.C11.o2.gs	Method	GENSCAN
Start	1752	End	2162
GI	none	Score	.94
Exons	1752..1756, 2003..2162		

Seq. No.	45006	Seq. ID	OJ000211_03.0411.C11
Gene No.	95064	Strand	+
Start	2983	End	3458
Name	OJ000211_03.0411.C11.o3.gs	Method	GENSCAN
Start	2983	End	3458
GI	none	Score	.68

Exons 2983..3091, 3316..3458

Seq. No.	45006	Seq. ID	OJ000211_03.0411.C11
Gene No.	95065	Strand	-
Start	211	End	463
Name	OJ000211_03.0411.C11.o1.gp	Method	AAT/GAP
Start	211	End	463
GI	2428699	Score	457
Exons	211..463		
GI Descrip.	1076414/pir  S52770 3.0e-09 subtilisin-like proteinase (EC 3.4.21.-) - Arabidopsis thaliana (fragment) >gi_757534_emb_CAA59963_ (X85974) subtilisin-like protease [Arabidopsis thaliana]		

Seq. No.	45006	Seq. ID	OJ000211_03.0411.C11
Gene No.	95066	Strand	-
Start	2602	End	11664
Name	OJ000211_03.0411.C11.o1.tc	Method	TBLASTX:Cress
Start	2	End	652
GI	none	Score	114
Exons	2..73, 10..42, 65..271, 91..264, 275..343, 409..456, 472..552, 473..562, 559..651, 560..652		

Seq. No.	45006	Seq. ID	OJ000211_03.0411.C11
Gene No.	95066	Strand	-
Start	2602	End	11664
Name	OJ000211_03.0411.C11.o1.tm	Method	TBLASTX:Maize
Start	2	End	343
GI	none	Score	125
Exons	2..88, 7..42, 83..271, 91..264, 257..343		

Seq. No.	45006	Seq. ID	OJ000211_03.0411.C11
Gene No.	95066	Strand	-
Start	2602	End	11664
Name	OJ000211_03.0411.C11.o1.ts	Method	TBLASTX:Soybean
Start	2	End	646
GI	none	Score	112
Exons	2..73, 98..277, 103..273, 275..343, 394..444, 407..466, 476..646		

Seq. No.	45006	Seq. ID	OJ000211_03.0411.C11
Gene No.	95066	Strand	-
Start	2602	End	11664
Name	OJ000211_03.0411.C11.o2.tm	Method	TBLASTX:Maize
Start	385	End	660
GI	none	Score	74
Exons	385..465, 407..466, 455..652, 457..657, 565..660		

Seq. No.	45006	Seq. ID	OJ000211_03.0411.C11
Gene No.	95066	Strand	-
Start	2602	End	11664
Name	OJ000211_03.0411.C11.o2.np	Method	AAT/NAP
Start	2602	End	7778
GI	6562280	Score	285
Exons	2602..2640, 6035..6120, 6194..6342, 6529..6741, 7627..7778		
GI Descrip.	(AL132980) MS5-like protein [Arabidopsis thaliana]		

Seq. No.	45006	Seq. ID	OJ000211_03.0411.C11
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Gene No.	95066	Strand	-
Start	2602	End	11664
Name	OJ000211_03.0411.C11.o2.tc	Method	TBLASTX:Cress
Start	6505	End	6750
GI	none	Score	150
Exons	6505..6750, 6530..6736		

Seq. No.	45006	Seq. ID	OJ000211_03.0411.C11
Gene No.	95066	Strand	-
Start	2602	End	11664
Name	OJ000211_03.0411.C11.o3.tm	Method	TBLASTX:Maize
Start	6524	End	7749
GI	none	Score	157
Exons	6524..6736, 6529..6744, 6529..6747, 7609..7659, 7654..7749		

Seq. No.	45006	Seq. ID	OJ000211_03.0411.C11
Gene No.	95066	Strand	-
Start	2602	End	11664
Name	OJ000211_03.0411.C11.o1.tw	Method	TBLASTX:Wheat
Start	6527	End	6732
GI	none	Score	270
Exons	6527..6730, 6528..6731, 6529..6732		

Seq. No.	45006	Seq. ID	OJ000211_03.0411.C11
Gene No.	95066	Strand	-
Start	2602	End	11664
Name	OJ000211_03.0411.C11.o4.gs	Method	GENSCAN
Start	6625	End	11664
GI	none	Score	.55
Exons	6625..6741, 7627..7751, 7986..8180, 8429..8575, 9662..9810, 10073..10200, 11569..11664		

Seq. No.	45006	Seq. ID	OJ000211_03.0411.C11
Gene No.	95066	Strand	-
Start	2602	End	11664
Name	OJ000211_03.0411.C11.o3.np	Method	AAT/NAP
Start	9710	End	9842
GI	4263825	Score	60
Exons	9710..9842		
GI Descrip.	(AC006067) putative helicase [Arabidopsis thaliana]		

Seq. No.	45007	Seq. ID	OJ000211_03.0411.C13
Gene No.	95067	Strand	+
Start	3723	End	9803
Name	OJ000211_03.0411.C13.o1.np	Method	AAT/NAP
Start	3723	End	9803
GI	5922631	Score	6675
Exons	3723..3846, 4105..4349, 4605..4807, 4853..5417, 5460..5618, 5745..6670, 7276..9803		
GI Descrip.	(AP000492) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinfu-1. (AF049110) [Oryza sativa] gi 6016864 dbj BAA85207.1  (AP000570) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinfu-1. (AF049110) [Oryza sativ		

Seq. No.	45007	Seq. ID	OJ000211_03.0411.C13
Gene No.	95068	Strand	+
Start	14768	End	15323
Name	OJ000211_03.0411.C13.o1.gp	Method	AAT/GAP
Start	14768	End	15323
GI	none	Score	1050
Exons	14768..15323		

Seq. No.	45007	Seq. ID	OJ000211_03.0411.C13
Gene No.	95069	Strand	-
Start	10167	End	16459
Name	OJ000211_03.0411.C13.o8.tw	Method	TBLASTX:Wheat
Start	5029	End	5431
GI	none	Score	276
Exons	5029..5298, 5030..5431		

Seq. No.	45007	Seq. ID	OJ000211_03.0411.C13
Gene No.	95069	Strand	-
Start	10167	End	16459
Name	OJ000211_03.0411.C13.o7.tw	Method	TBLASTX:Wheat
Start	6011	End	6465
GI	none	Score	134
Exons	6011..6187, 6013..6120, 6232..6372, 6236..6373, 6382..6465		

Seq. No.	45007	Seq. ID	OJ000211_03.0411.C13
Gene No.	95069	Strand	-
Start	10167	End	16459
Name	OJ000211_03.0411.C13.o6.tw	Method	TBLASTX:Wheat
Start	6652	End	7011
GI	none	Score	391
Exons	6652..7011, 6666..7010, 6667..7011		

Seq. No.	45007	Seq. ID	OJ000211_03.0411.C13
Gene No.	95069	Strand	-
Start	10167	End	16459
Name	OJ000211_03.0411.C13.o3.tm	Method	TBLASTX:Maize
Start	6817	End	7172
GI	none	Score	191
Exons	6817..7017, 6834..7016, 7008..7172, 7022..7162		

Seq. No.	45007	Seq. ID	OJ000211_03.0411.C13
Gene No.	95069	Strand	-
Start	10167	End	16459
Name	OJ000211_03.0411.C13.o1.tw	Method	TBLASTX:Wheat
Start	7041	End	7460
GI	none	Score	517
Exons	7041..7460, 7043..7246, 7053..7457, 7349..7459		

Seq. No.	45007	Seq. ID	OJ000211_03.0411.C13
Gene No.	95069	Strand	-
Start	10167	End	16459
Name	OJ000211_03.0411.C13.o5.tm	Method	TBLASTX:Maize
Start	7176	End	7403
GI	none	Score	204
Exons	7176..7403		

Seq. No.	45007	Seq. ID	OJ000211_03.0411.C13
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Gene No.	95069	Strand	-
Start	10167	End	16459
Name	OJ000211_03.0411.C13.o1.ts	Method	TBLASTX:Soybean
Start	7335	End	7736
GI	none	Score	304
Exons	7335..7736, 7352..7495, 7383..7538, 7532..7702		
Seq. No.	45007	Seq. ID	OJ000211_03.0411.C13
Gene No.	95069	Strand	-
Start	10167	End	16459
Name	OJ000211_03.0411.C13.o2.tm	Method	TBLASTX:Maize
Start	7403	End	7847
GI	none	Score	287
Exons	7403..7657, 7404..7658, 7404..7661, 7671..7811, 7680..7823, 7821..7847		
Seq. No.	45007	Seq. ID	OJ000211_03.0411.C13
Gene No.	95069	Strand	-
Start	10167	End	16459
Name	OJ000211_03.0411.C13.o2.tw	Method	TBLASTX:Wheat
Start	7505	End	7934
GI	none	Score	416
Exons	7505..7690, 7506..7934, 7799..7933		
Seq. No.	45007	Seq. ID	OJ000211_03.0411.C13
Gene No.	95069	Strand	-
Start	10167	End	16459
Name	OJ000211_03.0411.C13.o2.ts	Method	TBLASTX:Soybean
Start	7962	End	8350
GI	none	Score	92
Exons	7962..8066, 7970..8056, 8106..8348, 8111..8350		
Seq. No.	45007	Seq. ID	OJ000211_03.0411.C13
Gene No.	95069	Strand	-
Start	10167	End	16459
Name	OJ000211_03.0411.C13.o4.tw	Method	TBLASTX:Wheat
Start	7971	End	8395
GI	none	Score	402
Exons	7971..8393, 7976..8395		
Seq. No.	45007	Seq. ID	OJ000211_03.0411.C13
Gene No.	95069	Strand	-
Start	10167	End	16459
Name	OJ000211_03.0411.C13.o1.tm	Method	TBLASTX:Maize
Start	8703	End	9068
GI	none	Score	413
Exons	8703..8924, 8705..9028, 8706..9029, 9021..9068		
Seq. No.	45007	Seq. ID	OJ000211_03.0411.C13
Gene No.	95069	Strand	-
Start	10167	End	16459
Name	OJ000211_03.0411.C13.o5.tw	Method	TBLASTX:Wheat
Start	8711	End	9100
GI	none	Score	394
Exons	8711..9022, 8712..9098, 9053..9100		
Seq. No.	45007	Seq. ID	OJ000211_03.0411.C13

Gene No.	95069	Strand	-
Start	10167	End	16459
Name	OJ000211_03.0411.C13.o3.tw	Method	TBLASTX:Wheat
Start	9213	End	9827
GI	none	Score	354
Exons	9213..9704, 9233..9319, 9368..9472, 9696..9827		

Seq. No.	45007	Seq. ID	OJ000211_03.0411.C13
Gene No.	95069	Strand	-
Start	10167	End	16459
Name	OJ000211_03.0411.C13.o4.tm	Method	TBLASTX:Maize
Start	9534	End	9788
GI	none	Score	158
Exons	9534..9707, 9581..9706, 9686..9787, 9687..9788		

Seq. No.	45007	Seq. ID	OJ000211_03.0411.C13
Gene No.	95069	Strand	-
Start	10167	End	16459
Name	OJ000211_03.0411.C13.o2.gs	Method	GENSCAN
Start	10167	End	16145
GI	none	Score	.71
Exons	10167..10618, 10868..10995, 11244..11319, 11397..11755, 11832..12121, 12199..12533, 14394..14595, 14933..15018, 15320..15483, 16060..16145		

Seq. No.	45007	Seq. ID	OJ000211_03.0411.C13
Gene No.	95069	Strand	-
Start	10167	End	16459
Name	OJ000211_03.0411.C13.o2.np	Method	AAT/NAP
Start	10170	End	13088
GI	6691716	Score	2450
Exons	10170..10618, 10692..10805, 10955..11057, 11132..11319, 11397..11576, 11653..11755, 11832..12010, 12199..13088		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6691717 dbj BAA89397.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	45007	Seq. ID	OJ000211_03.0411.C13
Gene No.	95069	Strand	-
Start	10167	End	16459
Name	OJ000211_03.0411.C13.o9.tw	Method	TBLASTX:Wheat
Start	12714	End	12968
GI	none	Score	204
Exons	12714..12968		

Seq. No.	45007	Seq. ID	OJ000211_03.0411.C13
Gene No.	95069	Strand	-
Start	10167	End	16459
Name	OJ000211_03.0411.C13.o3.np	Method	AAT/NAP
Start	14003	End	16459
GI	81286	Score	137
Exons	14003..14111, 15334..15679, 16219..16459		
GI Descrip.	extensin - Volvox carteri (fragment) gi 21992 emb CAA46283  (X65165) extensin [Volvox carteri]		

Seq. No.	45008	Seq. ID	OJ000211_03.0411.C14
Gene No.	95070	Strand	+



Start	1	End	6275
Name	OJ000211_03.0411.C14.o1.np	Method	AAT/NAP
Start	1	End	5603
GI	5734621	Score	239
Exons	1..82, 882..983, 1296..1536, 5514..5603		
GI Descrip.	(AP000391) ESTs AU067992(C11433),AU077424(C11433) correspond to a region of the predicted gene.; Similar to ABC transporter-7 (U43892) [Oryza sativa]		

Seq. No.	45008	Seq. ID	OJ000211_03.0411.C14
Gene No.	95070	Strand	+
Start	1	End	6275
Name	OJ000211_03.0411.C14.o1.gs	Method	GENSCAN
Start	122	End	1291
GI	none	Score	.48
Exons	122..181, 575..884, 1137..1291		

Seq. No.	45008	Seq. ID	OJ000211_03.0411.C14
Gene No.	95070	Strand	+
Start	1	End	6275
Name	OJ000211_03.0411.C14.o1.gp	Method	AAT/GAP
Start	3493	End	6275
GI	13258_1.R1084	Score	1505
Exons	3493..3798, 5764..6275		
GI Descrip.	'4959460/gb AF126053.1 AF126053 1.0e-09 Zea mays RACB small GTP binding protein mRNA, complete cds'		

Seq. No.	45008	Seq. ID	OJ000211_03.0411.C14
Gene No.	95070	Strand	+
Start	1	End	6275
Name	OJ000211_03.0411.C14.o1.tw	Method	TBLASTX:Wheat
Start	3602	End	3793
GI	none	Score	58
Exons	3602..3673, 3605..3793, 3606..3788, 3731..3793		

Seq. No.	45008	Seq. ID	OJ000211_03.0411.C14
Gene No.	95070	Strand	+
Start	1	End	6275
Name	OJ000211_03.0411.C14.o1.tm	Method	TBLASTX:Maize
Start	3605	End	3793
GI	none	Score	73
Exons	3605..3673, 3618..3791, 3620..3793		

Seq. No.	45008	Seq. ID	OJ000211_03.0411.C14
Gene No.	95070	Strand	+
Start	1	End	6275
Name	OJ000211_03.0411.C14.o2.np	Method	AAT/NAP
Start	3609	End	3773
GI	6522622	Score	255
Exons	3609..3773		
GI Descrip.	(AL133298) putative protein [Arabidopsis thaliana]		

Seq. No.	45008	Seq. ID	OJ000211_03.0411.C14
Gene No.	95070	Strand	+
Start	1	End	6275
Name	OJ000211_03.0411.C14.o1.tc	Method	TBLASTX:Cress
Start	3611	End	3773

GI	none	Score	258
Exons	3611..3769, 3618..3773		
Seq. No.	45008	Seq. ID	OJ000211_03.0411.C14
Gene No.	95070	Strand	+
Start	1	End	6275
Name	OJ000211_03.0411.C14.o1.ts	Method	TBLASTX:Soybean
Start	3611	End	3773
GI	none	Score	67
Exons	3611..3673, 3618..3773, 3620..3772		
Seq. No.	45009	Seq. ID	OJ000301_05.0404.C2
Gene No.	95071	Strand	-
Start	46	End	1159
Name	OJ000301_05.0404.C2.o1.gs	Method	GENSCAN
Start	46	End	1159
GI	none	Score	.6
Exons	46..127, 414..558, 1080..1159		
Seq. No.	45010	Seq. ID	OJ000301_05.0404.C3
Gene No.	95072	Strand	+
Start	72	End	6420
Name	OJ000301_05.0404.C3.o1.np	Method	AAT/NAP
Start	72	End	2016
GI	7487482	Score	523
Exons	72..150, 255..352, 480..559, 764..845, 935..1005, 1080..1162, 1231..1332, 1695..1817, 1886..2016		
GI Descrip.	hypothetical protein T27E13.9 - Arabidopsis thaliana gi 3150403 gb AAC16955.1  (AC004165) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	45010	Seq. ID	OJ000301_05.0404.C3
Gene No.	95072	Strand	+
Start	72	End	6420
Name	OJ000301_05.0404.C3.o1.gp	Method	AAT/GAP
Start	301	End	829
GI	LIB3474-005-P1-K1-D1	Score	343
Exons	301..352, 480..559, 764..829		
GI Descrip.	'3150403 1.0e-09 (AC004165) hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	45010	Seq. ID	OJ000301_05.0404.C3
Gene No.	95072	Strand	+
Start	72	End	6420
Name	OJ000301_05.0404.C3.o1.gs	Method	GENSCAN
Start	480	End	6283
GI	none	Score	.85
Exons	480..559, 764..845, 935..1005, 1083..1162, 1231..1328, 1694..1817, 1919..2001, 2099..2147, 2236..2303, 2879..3241, 3617..4082, 4187..4446, 4544..4804, 4977..5056, 5162..5267, 5364..5477, 5558..5656, 5808..5897, 6029..6283		
Seq. No.	45010	Seq. ID	OJ000301_05.0404.C3
Gene No.	95072	Strand	+
Start	72	End	6420
Name	OJ000301_05.0404.C3.o2.gp	Method	AAT/GAP
Start	1757	End	2703

GI	none	Score	1042
Exons	1757..1817, 1919..2001, 2099..2147, 2236..2303, 2387..2703		
Seq. No.	45010	Seq. ID	OJ000301_05.0404.C3
Gene No.	95072	Strand	+
Start	72	End	6420
Name	OJ000301_05.0404.C3.o2.np	Method	AAT/NAP
Start	3816	End	6420
GI	6682628	Score	1278
Exons	3816..4082, 4210..4446, 4544..4765, 4977..5056, 5162..5267, 5364..5477, 5558..5656, 5808..5897, 6029..6294, 6382..6420		
GI Descrip.	(AC016163) putative ATP-dependent RNA helicase [Arabidopsis thaliana]		

Seq. No.	45010	Seq. ID	OJ000301_05.0404.C3
Gene No.	95073	Strand	-
Start	3470	End	3665
Name	OJ000301_05.0404.C3.o1.ts	Method	TBLASTX:Soybean
Start	299	End	2160
GI	none	Score	58
Exons	299..358, 301..357, 464..514, 477..554, 594..650, 765..848, 932..1006, 934..1017, 1072..1164, 1074..1166, 1215..1331, 1229..1333, 1230..1334, 1693..1815, 1694..1822, 1894..2013, 1903..2001, 1919..2035, 2096..2149, 2098..2160		

Seq. No.	45010	Seq. ID	OJ000301_05.0404.C3
Gene No.	95073	Strand	-
Start	3470	End	3665
Name	OJ000301_05.0404.C3.o3.gp	Method	AAT/GAP
Start	3470	End	3665
GI	24989_1.R1084	Score	304
Exons	3470..3665		
GI Descrip.	'5042437/gb AC007789.1 AC007789 2.0e-13 Oryza sativa BAC T49B20 genomic sequence, complete sequence'		

Seq. No.	45010	Seq. ID	OJ000301_05.0404.C3
Gene No.	95074	Strand	
Start	3842	End	4446
Name	OJ000301_05.0404.C3.o3.ts	Method	TBLASTX:Soybean
Start	3842	End	4446
GI	none	Score	293
Exons	3842..4024, 3846..4118, 4207..4446, 4209..4445		

Seq. No.	45010	Seq. ID	OJ000301_05.0404.C3
Gene No.	95074	Strand	
Start	3842	End	4446
Name	OJ000301_05.0404.C3.o2.tc	Method	TBLASTX:Cress
Start	3996	End	4434
GI	none	Score	97
Exons	3996..4070, 4065..4118, 4207..4338, 4209..4322, 4363..4434		

Seq. No.	45010	Seq. ID	OJ000301_05.0404.C3
Gene No.	95075	Strand	
Start	4541	End	4762
Name	OJ000301_05.0404.C3.o3.tm	Method	TBLASTX:Maize
Start	4541	End	4762
GI	none	Score	192

Exons 4541...4762, 4555...4728

Seq. No.	45010	Seq. ID	OJ000301_05.0404.C3
Gene No.	95075	Strand	
Start	4541	End	4762
Name	OJ000301_05.0404.C3.o4.ts	Method	TBLASTX:Soybean
Start	4541	End	4743
GI	none	Score	278
Exons	4541..4735, 4541..4726, 4543..4743, 4543..4734		

Seq. No.	45010	Seq. ID	OJ000301_05.0404.C3
Gene No.	95076	Strand	
Start	4970	End	6283
Name	OJ000301_05.0404.C3.o1.tc	Method	TBLASTX:Cress
Start	4970	End	6280
GI	none	Score	91
Exons	4970..5056, 4971..5057, 5163..5267, 5241..5273, 5370..5477, 5372..5455, 5403..5477, 5546..5656, 5555..5614, 5557..5664, 5808..5894, 6029..6280, 6037..6255, 6038..6268		

Seq. No.	45010	Seq. ID	OJ000301_05.0404.C3
Gene No.	95076	Strand	
Start	4970	End	6283
Name	OJ000301_05.0404.C3.o1.tm	Method	TBLASTX:Maize
Start	5178	End	5644
GI	none	Score	58
Exons	5178..5228, 5178..5207, 5189..5263, 5204..5266, 5205..5267, 5218..5268, 5223..5267, 5365..5475, 5369..5476, 5370..5477, 5550..5633, 5555..5644, 5555..5644		

Seq. No.	45010	Seq. ID	OJ000301_05.0404.C3
Gene No.	95076	Strand	
Start	4970	End	6283
Name	OJ000301_05.0404.C3.o2.ts	Method	TBLASTX:Soybean
Start	6026	End	6280
GI	none	Score	334
Exons	6026..6280, 6037..6279		

Seq. No.	45010	Seq. ID	OJ000301_05.0404.C3
Gene No.	95076	Strand	
Start	4970	End	6283
Name	OJ000301_05.0404.C3.o2.tm	Method	TBLASTX:Maize
Start	6102	End	6283
GI	none	Score	110
Exons	6102..6227, 6102..6278, 6103..6279, 6104..6280, 6104..6283		

Seq. No.	45011	Seq. ID	OJ000301_05.0404.C5
Gene No.	95077	Strand	+
Start	532	End	780
Name	OJ000301_05.0404.C5.o1.gs	Method	GENSCAN
Start	532	End	780
GI	none	Score	.56
Exons	532...780		

Seq. No.	45012	Seq. ID	OJ000301_05.0404.C7
Gene No.	95078	Strand	-
Start	164	End	2122

Name	OJ000301_05.0404.C7.o1.ts	Method	TBLASTX:Soybean
Start	156	End	1083
GI	none	Score	81
Exons	156..254, 173..250, 177..284, 378..467, 388..456, 397..468, 798..974, 803..973, 1042..1083		

Seq. No.	45012	Seq. ID	OJ000301_05.0404.C7
Gene No.	95078	Strand	-
Start	164	End	2122
Name	OJ000301_05.0404.C7.o1.np	Method	AAT/NAP
Start	164	End	2122
GI	2501231	Score	473
Exons	164..259, 387..455, 803..962, 1049..1108, 1193..1380, 1469..1501, 2066..2122		
GI Descrip.	HYPOTHETICAL 38.1 KD PROTEIN gi 99505 pir  S24930 hypothetical protein - pink corydalis gi 18258 emb CAA45139  (X63595) protein of unknown function [Corydalis sempervirens] gi 444333 prf  1906382A pCSC71 protein [Corydalis sempervirens]		

Seq. No.	45012	Seq. ID	OJ000301_05.0404.C7
Gene No.	95078	Strand	-
Start	164	End	2122
Name	OJ000301_05.0404.C7.o1.tm	Method	TBLASTX:Maize
Start	166	End	1236
GI	none	Score	80
Exons	166..261, 171..260, 173..262, 387..467, 388..456, 390..464, 801..974, 802..957, 803..973, 1031..1114, 1042..1110, 1189..1224, 1192..1236		

Seq. No.	45012	Seq. ID	OJ000301_05.0404.C7
Gene No.	95078	Strand	-
Start	164	End	2122
Name	OJ000301_05.0404.C7.o1.gs	Method	GENSCAN
Start	387	End	2037
GI	none	Score	.82
Exons	387..455, 803..962, 1199..1380, 1469..1555, 1881..2037		

Seq. No.	45013	Seq. ID	OJ000301_05.0404.C8
Gene No.	95079	Strand	+
Start	7358	End	9641
Name	OJ000301_05.0404.C8.o2.np	Method	AAT/NAP
Start	7358	End	9201
GI	7485719	Score	115
Exons	7358..7383, 8536..8817, 9106..9201		
GI Descrip.	hypothetical protein F18E5.40 - Arabidopsis thaliana gi 3080386 emb CAA18706.1  (AL022603) hypothetical protein [Arabidopsis thaliana] gi 3402761 emb CAA20207.1  (AL031187) hypothetical protein [Arabidopsis thaliana] gi 7268939 emb CAB81249.1  (AL161555) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45013	Seq. ID	OJ000301_05.0404.C8
Gene No.	95079	Strand	+
Start	7358	End	9641
Name	OJ000301_05.0404.C8.o3.gs	Method	GENSCAN
Start	8369	End	9641
GI	none	Score	.43

Exons 8369..8451, 8502..8888, 9420..9524, 9542..9641

Seq. No. 45013 Seq. ID OJ000301\_05.0404.C8  
Gene No. 95080 Strand +  
Start 10025 End 12907  
Name OJ000301\_05.0404.C8.o4.gs Method GENSCAN  
Start 10025 End 11638  
GI none Score .62  
Exons 10025..10798, 10954..11077, 11158..11226, 11346..11435,  
11527..11638

Seq. No. 45013 Seq. ID OJ000301\_05.0404.C8  
Gene No. 95080 Strand +  
Start 10025 End 12907  
Name OJ000301\_05.0404.C8.o3.np Method AAT/NAP  
Start 10932 End 12907  
GI 2760319 Score 136  
Exons 10932..11077, 11158..11226, 11346..11435, 12854..12907  
GI Descrip. (AC002130)·FlN21.3 [Arabidopsis thaliana]

Seq. No. 45013 Seq. ID OJ000301\_05.0404.C8  
Gene No. 95081 Strand -  
Start 645 End 3317  
Name OJ000301\_05.0404.C8.o1.tm Method TBLASTX:Maize  
Start 636 End 1773  
GI none Score 174  
Exons 636..743, 637..741, 854..949, 855..950, 1258..1461, 1284..1463,  
1290..1463, 1301..1468, 1561..1629, 1568..1633, 1568..1633,  
1729..1773, 1729..1773

Seq. No. 45013 Seq. ID OJ000301\_05.0404.C8  
Gene No. 95081 Strand -  
Start 645 End 3317  
Name OJ000301\_05.0404.C8.o1.np Method AAT/NAP  
Start 645 End 3317  
GI 2501231 Score 821  
Exons 645..740, 854..922, 1301..1460, 1568..1627, 1730..1917,  
2038..2154, 2260..2374, 3018..3073, 3189..3317  
GI Descrip. HYPOTHETICAL 38.1 KD PROTEIN gi|99505|pir||S24930 hypothetical  
protein - pink corydalis gi|18258|emb|CAA45139| (X63595) protein  
of unknown function [Corydalis sempervirens]  
gi|444333|prf||1906382A pCSC71 protein [Corydalis sempervirens]

Seq. No. 45013 Seq. ID OJ000301\_05.0404.C8  
Gene No. 95081 Strand -  
Start 645 End 3317  
Name OJ000301\_05.0404.C8.o1.tc Method TBLASTX:Cress  
Start 654 End 1463  
GI none Score 71  
Exons 654..743, 658..741, 854..949, 858..923, 1284..1463, 1292..1462

Seq. No. 45013 Seq. ID OJ000301\_05.0404.C8  
Gene No. 95081 Strand -  
Start 645 End 3317  
Name OJ000301\_05.0404.C8.o1.ts Method TBLASTX:Soybean  
Start 654 End 1611  
GI none Score 77

Exons 654..734, 655..735, 855..944, 860..949, 1284..1466, 1292..1468, 1561..1611, 1567..1605

Seq. No.	45013	Seq. ID	OJ000301_05.0404.C8
Gene No.	95081	Strand	-
Start	645	End	3317
Name	OJ000301_05.0404.C8.o1.gs	Method	GENSCAN
Start	854	End	3317
GI	none	Score	.73
Exons	854..922, 1301..1460, 1568..1627, 1730..1917, 2038..2066, 2260..2374, 3189..3317		

Seq. No.	45013	Seq. ID	OJ000301_05.0404.C8
Gene No.	95081	Strand	-
Start	645	End	3317
Name	OJ000301_05.0404.C8.o1.tw	Method	TBLASTX:Wheat
Start	1858	End	3067
GI	none	Score	85
Exons	1858..1917, 1863..1934, 2035..2076, 2119..2160, 2260..2370, 2306..2371, 3017..3067		

Seq. No.	45013	Seq. ID	OJ000301_05.0404.C8
Gene No.	95081	Strand	-
Start	645	End	3317
Name	OJ000301_05.0404.C8.o2.tm	Method	TBLASTX:Maize
Start	1861	End	3071
GI	none	Score	81
Exons	1861..1917, 2035..2070, 2077..2160, 2260..2373, 2309..2374, 3015..3071, 3017..3070		

Seq. No.	45014	Seq. ID	OJ000301_05.0404.C9
Gene No.	95082	Strand	+
Start	5004	End	6335
Name	OJ000301_05.0404.C9.o2.gs	Method	GENSCAN
Start	5004	End	6335
GI	none	Score	.89
Exons	5004..6335		

Seq. No.	45014	Seq. ID	OJ000301_05.0404.C9
Gene No.	95083	Strand	+
Start	9855	End	10172
Name	OJ000301_05.0404.C9.o2.gp	Method	AAT/GAP
Start	9855	End	10172
GI	2280610	Score	598
Exons	9855..10172		

Seq. No.	45014	Seq. ID	OJ000301_05.0404.C9
Gene No.	95084	Strand	-
Start	4751	End	4850
Name	OJ000301_05.0404.C9.o1.gp	Method	AAT/GAP
Start	4751	End	4850
GI	LIB3477-003-P1-K1-E9	Score	119
Exons	4751..4850		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	45014	Seq. ID	OJ000301_05.0404.C9
Gene No.	95085	Strand	-
Start	9957	End	10469
Name	OJ000301_05.0404.C9.o1.np	Method	AAT/NAP
Start	9957	End	10469
GI	7487480	Score	347
Exons	9957..10469		
GI Descrip.	hypothetical protein T27E13.3 - Arabidopsis thaliana gi 2347189 gb AAC16928.1  (AC002338) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45014	Seq. ID	OJ000301_05.0404.C9
Gene No.	95085	Strand	-
Start	9957	End	10469
Name	OJ000301_05.0404.C9.o3.gs	Method	GENSCAN
Start	9957	End	10469
GI	none	Score	1
Exons	9957..10469		

Seq. No.	45014	Seq. ID	OJ000301_05.0404.C9
Gene No.	95086	Strand	-
Start	13259	End	13878
Name	OJ000301_05.0404.C9.o2.tm	Method	TBLASTX:Maize
Start	7744	End	8407
GI	none	Score	77
Exons	7744..7899, 7761..7898, 7767..7868, 7768..7902, 7776..7901, 7894..8016, 7906..8016, 7910..8068, 7924..8046, 7950..8009, 7985..8065, 8039..8197, 8057..8212, 8058..8216, 8067..8174, 8067..8210, 8067..8207, 8068..8178, 8072..8224, 8159..8251, 8160..8252, 8197..8304, 8213..8305, 8240..8392, 8242..8397, 8243..8392, 8249..8407, 8252..8401, 8254..8400, 8255..8404, 8285..8359, 8331..8372		

Seq. No.	45014	Seq. ID	OJ000301_05.0404.C9
Gene No.	95086	Strand	-
Start	13259	End	13878
Name	OJ000301_05.0404.C9.o1.tc	Method	TBLASTX:Cress
Start	10194	End	10482
GI	none	Score	79
Exons	10194..10295, 10201..10293, 10302..10478, 10303..10482		

Seq. No.	45014	Seq. ID	OJ000301_05.0404.C9
Gene No.	95086	Strand	-
Start	13259	End	13878
Name	OJ000301_05.0404.C9.o1.ts	Method	TBLASTX:Soybean
Start	10194	End	10485
GI	none	Score	167
Exons	10194..10301, 10302..10481, 10303..10485		

Seq. No.	45014	Seq. ID	OJ000301_05.0404.C9
Gene No.	95086	Strand	-
Start	13259	End	13878
Name	OJ000301_05.0404.C9.o1.tm	Method	TBLASTX:Maize
Start	10194	End	10470
GI	none	Score	93
Exons	10194..10301, 10204..10278, 10302..10469, 10303..10470		



Seq. No.	45014	Seq. ID	OJ000301_05.0404.C9
Gene No.	95086	Strand	-
Start	13259	End	13878
Name	OJ000301_05.0404.C9.o2.np	Method	AAT/NAP
Start	13259	End	13878
GI	7339707	Score	154
Exons	13259..13406, 13484..13564, 13649..13878		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	45015	Seq. ID	OJ000301_05.0404.C10
Gene No.	95087	Strand	+
Start	1	End	9944
Name	OJ000301_05.0404.C10.o1.np	Method	AAT/NAP
Start	1	End	655
GI	7339707	Score	125
Exons	1..238, 268..426, 503..655		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	45015	Seq. ID	OJ000301_05.0404.C10
Gene No.	95087	Strand	+
Start	1	End	9944
Name	OJ000301_05.0404.C10.o1.gs	Method	GENSCAN
Start	70	End	8908
GI	none	Score	.66
Exons	70..269, 503..638, 710..819, 2245..2327, 4020..4102, 4518..4897, 5439..5550, 6703..6880, 7044..7246, 7324..8040, 8158..8214, 8456..8618, 8684..8796, 8873..8908		

Seq. No.	45015	Seq. ID	OJ000301_05.0404.C10
Gene No.	95087	Strand	+
Start	1	End	9944
Name	OJ000301_05.0404.C10.o1.gp	Method	AAT/GAP
Start	3027	End	3114
GI	69953_1.R1084	Score	121
Exons	3027..3114		
GI Descrip.	'5295936/dbj AB026295.2 AB026295 7.0e-34 Oryza sativa genomic DNA, chromosome 6, clone:P0681F10, complete sequence'		

Seq. No.	45015	Seq. ID	OJ000301_05.0404.C10
Gene No.	95087	Strand	+
Start	1	End	9944
Name	OJ000301_05.0404.C10.o4.np	Method	AAT/NAP
Start	7031	End	9944
GI	7327825	Score	402
Exons	7031..7225, 7324..7503, 7612..8040, 8402..8796, 8873..9072, 9742..9818, 9909..9944		
GI Descrip.	(AL161946) putative protein [Arabidopsis thaliana]		

Seq. No.	45015	Seq. ID	OJ000301_05.0404.C10
Gene No.	95087	Strand	+
Start	1	End	9944
Name	OJ000301_05.0404.C10.o3.np	Method	AAT/NAP
Start	7061	End	9763
GI	6016694	Score	195
Exons	7061..7225, 7324..7482, 9742..9763		
GI Descrip.	(AC009991) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45015	Seq. ID	OJ000301_05.0404.C10
Gene No.	95088	Strand	-
Start	2940	End	4925
Name	OJ000301_05.0404.C10.o2.np	Method	AAT/NAP
Start	2940	End	4925
GI	6539556	Score	185
Exons	2940..2986, 4615..4925		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa] gi 6539593 dbj BAA88209.1  (AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	45015	Seq. ID	OJ000301_05.0404.C10
Gene No.	95089	Strand	
Start	6791	End	7193
Name	OJ000301_05.0404.C10.o2.tm	Method	TBLASTX:Maize
Start	6791	End	7193
GI	none	Score	103
Exons	6791..6901, 6793..6882, 7037..7186, 7037..7186, 7044..7193		

Seq. No.	45015	Seq. ID	OJ000301_05.0404.C10
Gene No.	95090	Strand	
Start	8709	End	9944
Name	OJ000301_05.0404.C10.o1.tm	Method	TBLASTX:Maize
Start	8709	End	9944
GI	none	Score	55
Exons	8709..8774, 8710..8796, 8848..9063, 8848..9063, 8865..9062, 8869..9030, 8869..9063, 8932..9069, 9730..9819, 9741..9824, 9741..9815, 9749..9829, 9907..9942, 9909..9944		

Seq. No.	45016	Seq. ID	OJ000301_05.0404.C11
Gene No.	95091	Strand	+
Start	953	End	2922
Name	OJ000301_05.0404.C11.o2.gp	Method	AAT/GAP
Start	953	End	1327
GI	none	Score	738
Exons	953..1327		

Seq. No.	45016	Seq. ID	OJ000301_05.0404.C11
Gene No.	95091	Strand	+
Start	953	End	2922
Name	OJ000301_05.0404.C11.o1.gs	Method	GENSCAN
Start	1046	End	2922
GI	none	Score	.87
Exons	1046..1830, 2277..2922		

Seq. No.	45016	Seq. ID	OJ000301_05.0404.C11
Gene No.	95091	Strand	+
Start	953	End	2922
Name	OJ000301_05.0404.C11.o1.np	Method	AAT/NAP
Start	1265	End	2910
GI	4586055	Score	1139
Exons	1265..1830, 2277..2910		
GI Descrip.	(AC007020) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45016	Seq. ID	OJ000301_05.0404.C11
Gene No.	95092	Strand	+
Start	3166	End	3357

Name	OJ000301_05.0404.C11.o3.gp	Method	AAT/GAP
Start	3166	End	3357
GI	none	Score	364
Exons	3166..3357		
Seq. No.	45016	Seq. ID	OJ000301_05.0404.C11
Gene No.	95093	Strand	-
Start	2216	End	4221
Name	OJ000301_05.0404.C11.o3.ts	Method	TBLASTX:Soybean
Start	968	End	1414
GI	none	Score	108
Exons	968..1087, 969..1076, 1133..1306, 1319..1414, 1321..1413		
Seq. No.	45016	Seq. ID	OJ000301_05.0404.C11
Gene No.	95093	Strand	-
Start	2216	End	4221
Name	OJ000301_05.0404.C11.o3.tm	Method	TBLASTX:Maize
Start	1417	End	1649
GI	none	Score	300
Exons	1417..1647, 1421..1648, 1430..1648, 1473..1649		
Seq. No.	45016	Seq. ID	OJ000301_05.0404.C11
Gene No.	95093	Strand	-
Start	2216	End	4221
Name	OJ000301_05.0404.C11.o2.ts	Method	TBLASTX:Soybean
Start	1601	End	2910
GI	none	Score	77
Exons	1601..1687, 1700..1831, 2335..2379, 2428..2910		
Seq. No.	45016	Seq. ID	OJ000301_05.0404.C11
Gene No.	95093	Strand	-
Start	2216	End	4221
Name	OJ000301_05.0404.C11.o3.tc	Method	TBLASTX:Cress
Start	1646	End	2520
GI	none	Score	212
Exons	1646..1831, 1646..1825, 2269..2520, 2274..2495		
Seq. No.	45016	Seq. ID	OJ000301_05.0404.C11
Gene No.	95093	Strand	-
Start	2216	End	4221
Name	OJ000301_05.0404.C11.o1.tm	Method	TBLASTX:Maize
Start	1761	End	2687
GI	none	Score	82
Exons	1761..1832, 1762..1833, 1763..1852, 1763..1831, 2269..2685, 2274..2687		
Seq. No.	45016	Seq. ID	OJ000301_05.0404.C11
Gene No.	95093	Strand	-
Start	2216	End	4221
Name	OJ000301_05.0404.C11.o2.np	Method	AAT/NAP
Start	2216	End	4221
GI	3738230	Score	381
Exons	2216..2237, 3763..4221		
GI Descrip.	(AB007790) DREB2A [Arabidopsis thaliana] gi 4126706 dbj BAA36705  (AB016570) DREB2A [Arabidopsis thaliana]		

Seq. No.	45016	Seq. ID	OJ000301_05.0404.C11
Gene No.	95093	Strand	-
Start	2216	End	4221
Name	OJ000301_05.0404.C11.o2.tc	Method	TBLASTX:Cress
Start	2604	End	2916
GI	none	Score	343
Exons	2604..2855, 2605..2907, 2611..2916		

Seq. No.	45016	Seq. ID	OJ000301_05.0404.C11
Gene No.	95093	Strand	-
Start	2216	End	4221
Name	OJ000301_05.0404.C11.o2.gs	Method	GENSCAN
Start	3387	End	4199
GI	none	Score	.56
Exons	3387..3814, 3959..4199		

Seq. No.	45016	Seq. ID	OJ000301_05.0404.C11
Gene No.	95093	Strand	-
Start	2216	End	4221
Name	OJ000301_05.0404.C11.o4.gp	Method	AAT/GAP
Start	3682	End	4023
GI	59584_1.R1084	Score	677
Exons	3682..4023		
GI Descrip.	'3738230/dbj BAA33794  1.0e-22 (AB007790) DREB2A [Arabidopsis thaliana] >gi_4126706_dbj_BAA36705_ (AB016570) DREB2A [Arabidopsis thaliana]'		

Seq. No.	45016	Seq. ID	OJ000301_05.0404.C11
Gene No.	95093	Strand	-
Start	2216	End	4221
Name	OJ000301_05.0404.C11.o2.tm	Method	TBLASTX:Maize
Start	3711	End	4034
GI	none	Score	313
Exons	3711..4034, 3748..4029, 3749..4033		

Seq. No.	45016	Seq. ID	OJ000301_05.0404.C11
Gene No.	95093	Strand	-
Start	2216	End	4221
Name	OJ000301_05.0404.C11.o1.tc	Method	TBLASTX:Cress
Start	3723	End	4167
GI	none	Score	110
Exons	3723..4166, 3819..4061, 3820..4167		

Seq. No.	45016	Seq. ID	OJ000301_05.0404.C11
Gene No.	95093	Strand	-
Start	2216	End	4221
Name	OJ000301_05.0404.C11.o1.ts	Method	TBLASTX:Soybean
Start	3735	End	4079
GI	none	Score	235
Exons	3735..4079, 3772..4062, 3819..4070		

Seq. No.	45017	Seq. ID	OJ000301_05.0404.C12
Gene No.	95094	Strand	+
Start	1435	End	2818
Name	OJ000301_05.0404.C12.o1.gs	Method	GENSCAN
Start	1435	End	2818
GI	none	Score	.64

Exons	1435..1528, 1712..1768, 1879..2085, 2512..2577, 2714..2818		
Seq. No.	45018	Seq. ID	OJ000301_05.0404.C13
Gene No.	95095	Strand	+
Start	78	End	1227
Name	OJ000301_05.0404.C13.o1.gs	Method	GENSCAN
Start	78	End	1227
GI	none	Score	.92
Exons	78..203, 604..735, 842..970, 1102..1227		
Seq. No.	45019	Seq. ID	OJ000301_05.0404.C14
Gene No.	95096	Strand	-
Start	162	End	307
Name	OJ000301_05.0404.C14.o1.gs	Method	GENSCAN
Start	162	End	307
GI	none	Score	.44
Exons	162..307		
Seq. No.	45020	Seq. ID	OJ000301_05.0404.C20
Gene No.	95097	Strand	+
Start	9023	End	11640
Name	OJ000301_05.0404.C20.o4.np	Method	AAT/NAP
Start	9023	End	11640
GI	2792188	Score	152
Exons	9023..9215, 11018..11445, 11537..11640		
GI Descrip.	(AJ002236) Hcr9-9E [ <i>Lycopersicon pimpinellifolium</i> ]		
Seq. No.	45020	Seq. ID	OJ000301_05.0404.C20
Gene No.	95097	Strand	+
Start	9023	End	11640
Name	OJ000301_05.0404.C20.o2.gs	Method	GENSCAN
Start	10827	End	11600
GI	none	Score	.9
Exons	10827..11600		
Seq. No.	45020	Seq. ID	OJ000301_05.0404.C20
Gene No.	95098	Strand	-
Start	4641	End	8182
Name	OJ000301_05.0404.C20.o2.np	Method	AAT/NAP
Start	4641	End	6325
GI	6721516	Score	596
Exons	4641..4742, 4833..4905, 5343..5682, 6093..6325		
GI Descrip.	(AP001072) hypothetical protein [ <i>Oryza sativa</i> ]		
Seq. No.	45020	Seq. ID	OJ000301_05.0404.C20
Gene No.	95098	Strand	-
Start	4641	End	8182
Name	OJ000301_05.0404.C20.o3.np	Method	AAT/NAP
Start	6136	End	8182
GI	7340909	Score	199
Exons	6136..6284, 6956..7295, 7848..8057, 8090..8182		
GI Descrip.	(AP001550) hypothetical protein [ <i>Oryza sativa</i> ]		
Seq. No.	45021	Seq. ID	OJ000301_05.0404.C21
Gene No.	95099	Strand	+
Start	1	End	1003
Name	OJ000301_05.0404.C21.o1.np	Method	AAT/NAP

Start	1	End	1003
GI	6682625	Score	205
Exons	1..21, 135..442, 593..1003		
GI Descrip.	(AC016163) putative disease resistance protein [Arabidopsis thaliana]		

Seq. No.	45022	Seq. ID	OJ000301_05.0404.C22
Gene No.	95100	Strand	+
Start	1	End	11173
Name	OJ000301_05.0404.C22.o1.np	Method	AAT/NAP
Start	1	End	11173
GI	6635236	Score	1001
Exons	1..280, 7730..7855, 8006..8292, 8365..8740, 9176..10349, 11109..11173		
GI Descrip.	(AB029327) elicitor-inducible receptor-like protein EIR [Nicotiana tabacum]		

Seq. No.	45022	Seq. ID	OJ000301_05.0404.C22
Gene No.	95100	Strand	+
Start	1	End	11173
Name	OJ000301_05.0404.C22.o1.gp	Method	AAT/GAP
Start	11	End	597
GI	LIB3432-052-P1-K1-E4	Score	1055
Exons	11..597		
GI Descrip.	'4432871/gb AAD20719  3.0e-20 (AC006300) putative disease resistance protein [Arabidopsis thaliana]'		

Seq. No.	45022	Seq. ID	OJ000301_05.0404.C22
Gene No.	95100	Strand	+
Start	1	End	11173
Name	OJ000301_05.0404.C22.o2.gs	Method	GENSCAN
Start	3332	End	4198
GI	none	Score	.56
Exons	3332..3554, 3677..3957, 4049..4198		

Seq. No.	45022	Seq. ID	OJ000301_05.0404.C22
Gene No.	95100	Strand	+
Start	1	End	11173
Name	OJ000301_05.0404.C22.o3.gs	Method	GENSCAN
Start	7369	End	10359
GI	none	Score	.66
Exons	7369..8371, 9572..10359		

Seq. No.	45022	Seq. ID	OJ000301_05.0404.C22
Gene No.	95101	Strand	+
Start	13908	End	14372
Name	OJ000301_05.0404.C22.o5.gs	Method	GENSCAN
Start	13908	End	14372
GI	none	Score	.46
Exons	13908..14372		

Seq. No.	45022	Seq. ID	OJ000301_05.0404.C22
Gene No.	95102	Strand	+
Start	17314	End	18275
Name	OJ000301_05.0404.C22.o7.gs	Method	GENSCAN
Start	17314	End	18275
GI	none	Score	.77

Exons 17314..17374, 17523..17703, 17729..18275

Seq. No.	45022	Seq. ID	OJ000301_05.0404.C22
Gene No.	95103	Strand	-
Start	1861	End	2442
Name	OJ000301_05.0404.C22.o1.gs	Method	GENSCAN
Start	1861	End	2403
GI	none	Score	.52
Exons	1861..2010, 2060..2161, 2279..2403		

Seq. No.	45022	Seq. ID	OJ000301_05.0404.C22
Gene No.	95103	Strand	-
Start	1861	End	2442
Name	OJ000301_05.0404.C22.o2.gp	Method	AAT/GAP
Start	2109	End	2442
GI	2427798	Score	660
Exons	2109..2442		

Seq. No.	45022	Seq. ID	OJ000301_05.0404.C22
Gene No.	95104	Strand	-
Start	5529	End	18725
Name	OJ000301_05.0404.C22.o1.ts	Method	TBLASTX:Soybean
Start	1	End	10220
GI	none	Score	198
Exons	1..207, 3..368, 10..210, 22..210, 33..137, 34..207, 268..441, 7954..8238, 8047..8229, 8119..8289, 8302..8595, 8467..8739, 8545..8739, 8653..8754, 8746..8802, 8755..8805, 8842..8982, 8920..8964, 9070..9174, 9133..9321, 9148..9321, 9217..9357, 9337..9657, 9346..9603, 9358..9603, 9436..9642, 9460..9552, 9640..9747, 9652..9780, 9829..10218, 9859..9963, 9859..10056, 9859..9918, 9865..10128, 9883..10134, 9883..10137, 9940..10056, 9942..10220, 9994..10059		

Seq. No.	45022	Seq. ID	OJ000301_05.0404.C22
Gene No.	95104	Strand	-
Start	5529	End	18725
Name	OJ000301_05.0404.C22.o1.tw	Method	TBLASTX:Wheat
Start	1	End	10206
GI	none	Score	128
Exons	1..279, 93..341, 129..290, 7753..7845, 8047..8238, 8107..8289, 8344..8469, 8470..8739, 9349..9468, 9826..10179, 10162..10206		

Seq. No.	45022	Seq. ID	OJ000301_05.0404.C22
Gene No.	95104	Strand	-
Start	5529	End	18725
Name	OJ000301_05.0404.C22.o1.tc	Method	TBLASTX:Cress
Start	9	End	10005
GI	none	Score	78
Exons	9..134, 8560..8691, 9421..9540, 9442..9609, 9444..9605, 9610..9738, 9829..10005, 9876..9986		

Seq. No.	45022	Seq. ID	OJ000301_05.0404.C22
Gene No.	95104	Strand	-
Start	5529	End	18725
Name	OJ000301_05.0404.C22.o1.tm	Method	TBLASTX:Maize
Start	37	End	10137
GI	none	Score	76

Exons 37..207, 8110..8256, 8329..8622, 8470..8607, 9150..9614,  
9151..9630, 9226..9639, 9227..9631, 9631..9696, 9639..9695,  
9865..9924, 9994..10137, 10030..10131

Seq. No. 45022 Seq. ID OJ000301\_05.0404.C22  
Gene No. 95104 Strand -  
Start 5529 End 18725  
Name OJ000301\_05.0404.C22.o2.tc Method TBLASTX:Cress  
Start 136 End 10215  
GI none Score 65  
Exons 136..213, 139..207, 7741..7842, 8032..8289, 8044..8289,  
8044..8553, 8056..8229, 8311..8556, 8317..8559, 8329..8535,  
8329..8553, 8335..8553, 9133..9357, 9193..9321, 9193..9321,  
9205..9345, 9208..9357, 9226..9339, 9349..9396, 10009..10164,  
10012..10197, 10012..10137, 10012..10128, 10012..10131,  
10012..10131, 10015..10197, 10018..10134, 10021..10155,  
10066..10215

Seq. No. 45022 Seq. ID OJ000301\_05.0404.C22  
Gene No. 95104 Strand -  
Start 5529 End 18725  
Name OJ000301\_05.0404.C22.o2.np Method AAT/NAP  
Start 5529 End 18725  
GI 544262 Score 83  
Exons 5529..5595, 7558..7643, 11450..11582, 12936..13036,  
14295..14465, 15472..15678, 18687..18725  
GI Descrip. PISTIL-SPECIFIC EXTENSIN-LIKE PROTEIN PRECURSOR (PELP)  
gi|322761|pir||JQ1696 pistil extensin-like protein precursor  
(clone pMG15) - common tobacco gi|19929|emb|CAA78397| (Z14019)  
pistil extensin like protein [Nicotiana tabacum]

Seq. No. 45022 Seq. ID OJ000301\_05.0404.C22  
Gene No. 95104 Strand -  
Start 5529 End 18725  
Name OJ000301\_05.0404.C22.o3.gp Method AAT/GAP  
Start 7172 End 7561  
GI 84553\_1.R1084 Score 658  
Exons 7172..7561  
GI Descrip. '4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450  
[Arabidopsis thaliana]'

Seq. No. 45022 Seq. ID OJ000301\_05.0404.C22  
Gene No. 95104 Strand -  
Start 5529 End 18725  
Name OJ000301\_05.0404.C22.o6.gs Method GENSCAN  
Start 14982 End 15716  
GI none Score .75  
Exons 14982..15716

Seq. No. 45023 Seq. ID OJ000301\_05.0404.C23  
Gene No. 95105 Strand +  
Start 111 End 2558  
Name OJ000301\_05.0404.C23.o1.gs Method GENSCAN  
Start 111 End 2558  
GI none Score .65  
Exons 111..422, 443..542, 1789..1902, 2482..2558



Seq. No.	45023	Seq. ID	OJ000301_05.0404.C23
Gene No.	95106	Strand	-
Start	3265	End	6424
Name	OJ000301_05.0404.C23.o1.np	Method	AAT/NAP
Start	3240	End	6386
GI	1184100	Score	86
Exons	3240..3773, 4972..5181, 6286..6386		
GI Descrip.	(U45958) pistil extensin-like protein [Nicotiana glauca]		

Seq. No.	45023	Seq. ID	OJ000301_05.0404.C23
Gene No.	95106	Strand	-
Start	3265	End	6424
Name	OJ000301_05.0404.C23.o2.gs	Method	GENSCAN
Start	3265	End	3825
GI	none	Score	1
Exons	3265..3825		

Seq. No.	45023	Seq. ID	OJ000301_05.0404.C23
Gene No.	95106	Strand	-
Start	3265	End	6424
Name	OJ000301_05.0404.C23.o3.gs	Method	GENSCAN
Start	4269	End	6424
GI	none	Score	.65
Exons	4269..4321, 4688..5018, 5480..5511, 5942..6229, 6274..6424		

Seq. No.	45024	Seq. ID	OJ000301_05.0404.C25
Gene No.	95107	Strand	-
Start	1504	End	2073
Name	OJ000301_05.0404.C25.o1.gs	Method	GENSCAN
Start	1504	End	2073
GI	none	Score	1
Exons	1504..2073		

Seq. No.	45024	Seq. ID	OJ000301_05.0404.C25
Gene No.	95107	Strand	-
Start	1504	End	2073
Name	OJ000301_05.0404.C25.o1.np	Method	AAT/NAP
Start	1513	End	2063
GI	1707022	Score	85
Exons	1513..2063		
GI Descrip.	(U78721) putative proline-rich protein [Arabidopsis thaliana]		

Seq. No.	45025	Seq. ID	OJ000301_05.0404.C26
Gene No.	95108	Strand	-
Start	184	End	4925
Name	OJ000301_05.0404.C26.o1.gs	Method	GENSCAN
Start	184	End	4925
GI	none	Score	.85
Exons	184..297, 953..1092, 1177..1220, 3279..3431, 3882..3942, 4481..4925		

Seq. No.	45025	Seq. ID	OJ000301_05.0404.C26
Gene No.	95109	Strand	-
Start	6721	End	9829
Name	OJ000301_05.0404.C26.o2.gs	Method	GENSCAN
Start	6721	End	7284
GI	none	Score	1

Exons 6721..7284

Seq. No.	45025	Seq. ID	OJ000301_05.0404.C26
Gene No.	95109	Strand	-
Start	6721	End	9829
Name	OJ000301_05.0404.C26.o1.np	Method	AAT/NAP
Start	6733	End	9823
GI	7487528	Score	149
Exons	6733..6879, 7209..7263, 9482..9823		
GI Descrip.	hypothetical protein T29F13.9 - Arabidopsis thaliana gi 3132475 gb AAC16264.1  (AC003096) putative proline-rich glycoprotein [Arabidopsis thaliana]		

Seq. No.	45025	Seq. ID	OJ000301_05.0404.C26
Gene No.	95109	Strand	-
Start	6721	End	9829
Name	OJ000301_05.0404.C26.o3.gs	Method	GENSCAN
Start	9272	End	9829
GI	none	Score	1
Exons	9272..9829		

Seq. No.	45026	Seq. ID	OJ000301_05.0404.C27
Gene No.	95110	Strand	+
Start	1981	End	2167
Name	OJ000301_05.0404.C27.o2.gs	Method	GENSCAN
Start	1981	End	2167
GI	none	Score	.63
Exons	1981..2106, 2111..2167		

Seq. No.	45026	Seq. ID	OJ000301_05.0404.C27
Gene No.	95111	Strand	-
Start	17	End	184
Name	OJ000301_05.0404.C27.o1.gs	Method	GENSCAN
Start	17	End	184
GI	none	Score	.59
Exons	17..184		

Seq. No.	45027	Seq. ID	OJ000301_05.0404.C28
Gene No.	95112	Strand	+
Start	206	End	1992
Name	OJ000301_05.0404.C28.o1.np	Method	AAT/NAP
Start	206	End	588
GI	1079136	Score	217
Exons	206..588		
GI Descrip.	RNA-binding protein cabeza - fruit fly (Drosophila melanogaster) gi 532788 gb AAA86955.1  (U13178) RNA binding protein [Drosophila melanogaster] gi 567106 gb AAC41563.1  (L37083) RNA binding protein [Drosophila melanogaster]		

Seq. No.	45027	Seq. ID	OJ000301_05.0404.C28
Gene No.	95112	Strand	+
Start	206	End	1992
Name	OJ000301_05.0404.C28.o1.gs	Method	GENSCAN
Start	219	End	1992
GI	none	Score	1
Exons	219..1086, 1842..1992		

Seq. No.	45027	Seq. ID	OJ000301_05.0404.C28
Gene No.	95112	Strand	+
Start	206	End	1992
Name	OJ000301_05.0404.C28.o1.gp	Method	AAT/GAP
Start	478	End	739
GI	2310809	Score	500
Exons	478..739		

Seq. No.	45027	Seq. ID	OJ000301_05.0404.C28
Gene No.	95113	Strand	+
Start	1911	End	2161
Name	OJ000301_05.0404.C28.o2.tm	Method	TBLASTX:Maize
Start	314	End	770
GI	none	Score	50
Exons	314..346, 395..433, 488..613, 548..634, 599..700, 599..769, 648..770		

Seq. No.	45027	Seq. ID	OJ000301_05.0404.C28
Gene No.	95113	Strand	+
Start	1911	End	2161
Name	OJ000301_05.0404.C28.o1.tm	Method	TBLASTX:Maize
Start	930	End	1948
GI	none	Score	134
Exons	930..1088, 933..1088, 940..1089, 1839..1946, 1841..1948, 1850..1948		

Seq. No.	45027	Seq. ID	OJ000301_05.0404.C28
Gene No.	95113	Strand	+
Start	1911	End	2161
Name	OJ000301_05.0404.C28.o1.ts	Method	TBLASTX:Soybean
Start	936	End	2142
GI	none	Score	217
Exons	936..1088, 943..1089, 1839..1994, 1850..1957, 2077..2142, 2078..2140		

Seq. No.	45027	Seq. ID	OJ000301_05.0404.C28
Gene No.	95113	Strand	+
Start	1911	End	2161
Name	OJ000301_05.0404.C28.o1.tw	Method	TBLASTX:Wheat
Start	1022	End	2157
GI	none	Score	84
Exons	1022..1087, 1023..1088, 1023..1088, 1024..1089, 1839..1991, 1840..1995, 1840..1986, 2076..2123, 2077..2157, 2077..2154, 2078..2155, 2106..2156		

Seq. No.	45027	Seq. ID	OJ000301_05.0404.C28
Gene No.	95113	Strand	+
Start	1911	End	2161
Name	OJ000301_05.0404.C28.o2.gp	Method	AAT/GAP
Start	1911	End	2161
GI	2798227	Score	240
Exons	1911..1992, 2078..2161		

Seq. No.	45028	Seq. ID	OJ000301_05.0404.C29
Gene No.	95114	Strand	+
Start	301	End	619
Name	OJ000301_05.0404.C29.o1.gp	Method	AAT/GAP

Start	301	End	619
GI	2798227	Score	545
Exons	301..619		
Seq. No.	45028	Seq. ID	OJ000301_05.0404.C29
Gene No.	95114	Strand	+
Start	301	End	619
Name	OJ000301_05.0404.C29.o1.gs	Method	GENSCAN
Start	321	End	439
GI	none	Score	.75
Exons	321..439		
Seq. No.	45029	Seq. ID	OJ000301_04.0403.C1
Gene No.	95115	Strand	+
Start	1	End	971
Name	OJ000301_04.0403.C1.o1.np	Method	AAT/NAP
Start	1	End	971
GI	5091513	Score	1180
Exons	1..971		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		
Seq. No.	45029	Seq. ID	OJ000301_04.0403.C1
Gene No.	95115	Strand	+
Start	1	End	971
Name	OJ000301_04.0403.C1.o1.gs	Method	GENSCAN
Start	323	End	883
GI	none	Score	.49
Exons	323..883		
Seq. No.	45030	Seq. ID	OJ000301_04.0403.C2
Gene No.	95116	Strand	+
Start	86	End	227
Name	OJ000301_04.0403.C2.o1.gs	Method	GENSCAN
Start	86	End	227
GI	none	Score	.83
Exons	86..227		
Seq. No.	45030	Seq. ID	OJ000301_04.0403.C2
Gene No.	95117	Strand	-
Start	1	End	6009
Name	OJ000301_04.0403.C2.o1.np	Method	AAT/NAP
Start	1	End	5985
GI	7486825	Score	887
Exons	1..27, 918..1039, 1129..1252, 1336..1388, 1478..1665, 2098..2321, 2424..2531, 2608..2756, 2832..2955, 3106..3158, 5835..5985		
GI Descrip.	hypothetical protein T10I14.130 - Arabidopsis thaliana gi 2832680 emb CAA16780.1  (AL021712) putative protein [Arabidopsis thaliana] gi 7269076 emb CAB79185.1  (AL161557) putative protein [Arabidopsis thaliana]		
Seq. No.	45030	Seq. ID	OJ000301_04.0403.C2
Gene No.	95117	Strand	-
Start	1	End	6009
Name	OJ000301_04.0403.C2.o2.gs	Method	GENSCAN
Start	636	End	1769
GI	none	Score	.56

Exons 636..704, 918..1039, 1129..1252, 1336..1388, 1478..1769

Seq. No.	45030	Seq. ID	OJ000301_04.0403.C2
Gene No.	95117	Strand	-
Start	1	End	6009
Name	OJ000301_04.0403.C2.o4.gs	Method	GENSCAN
Start	5489	End	6009
GI	none	Score	.95
Exons	5489..5628, 5835..6009		

Seq. No.	45030	Seq. ID	OJ000301_04.0403.C2
Gene No.	95118	Strand	-
Start	6588	End	9903
Name	OJ000301_04.0403.C2.o2.tm	Method	TBLASTX:Maize
Start	917	End	5974
GI	none	Score	139
Exons	917..1042, 918..1040, 918..1049, 919..1041, 920..1057, 1127..1300, 1128..1253, 1330..1389, 1340..1387, 1479..1622, 1480..1614, 1527..1622, 2244..2324, 2423..2533, 2424..2522, 2424..2534, 2425..2532, 2635..2757, 2636..2758, 2643..2759, 2812..2946, 2831..2911, 3106..3156, 3279..3347, 3378..3410, 4516..4596, 4717..4827, 5147..5269, 5148..5270, 5148..5270, 5346..5438, 5347..5469, 5348..5425, 5576..5632, 5580..5627, 5836..5892, 5908..5973, 5927..5974		

Seq. No.	45030	Seq. ID	OJ000301_04.0403.C2
Gene No.	95118	Strand	-
Start	6588	End	9903
Name	OJ000301_04.0403.C2.o3.ts	Method	TBLASTX:Soybean
Start	1127	End	6000
GI	none	Score	133
Exons	1127..1294, 1128..1250, 1330..1386, 1346..1387, 1479..1619, 1480..1614, 2827..2943, 2831..2911, 5347..5469, 5348..5425, 5576..5626, 5836..5904, 5837..5914, 5899..6000, 5927..5974		

Seq. No.	45030	Seq. ID	OJ000301_04.0403.C2
Gene No.	95118	Strand	-
Start	6588	End	9903
Name	OJ000301_04.0403.C2.o3.tc	Method	TBLASTX:Cress
Start	1196	End	5973
GI	none	Score	47
Exons	1196..1294, 1197..1253, 1330..1386, 1346..1387, 1479..1619, 1480..1614, 3106..3156, 5416..5469, 5576..5626, 5836..5892, 5926..5973		

Seq. No.	45030	Seq. ID	OJ000301_04.0403.C2
Gene No.	95118	Strand	-
Start	6588	End	9903
Name	OJ000301_04.0403.C2.o1.gp	Method	AAT/GAP
Start	6588	End	8623
GI	1735_1.R1084	Score	1729
Exons	6588..7112, 7797..8011, 8433..8623		
GI Descrip.	'2633727/emb CAB13229  1.0e-23 (Z99111) ykrT [Bacillus subtilis]'		

Seq. No.	45030	Seq. ID	OJ000301_04.0403.C2
Gene No.	95118	Strand	-

Start	6588	End	9903
Name	OJ000301_04.0403.C2.o1.tm	Method	TBLASTX:Maize
Start	6938	End	9606
GI	none	Score	206
Exons	6938..7114, 6939..7115, 7791..8012, 7791..8012, 7796..8014, 7946..8014, 8432..8632, 8433..8633, 8433..8633, 8434..8637, 8438..8641, 8711..8866, 8713..8889, 8714..8890, 8802..8891, 9038..9349, 9039..9347, 9089..9349, 9190..9390, 9432..9533, 9433..9510, 9528..9605, 9565..9606		

Seq. No.	45030	Seq. ID	OJ000301_04.0403.C2
Gene No.	95118	Strand	-
Start	6588	End	9903
Name	OJ000301_04.0403.C2.o5.gs	Method	GENSCAN
Start	6938	End	9903
GI	none	Score	.91
Exons	6938..7112, 7797..8011, 8433..8634, 8714..8888, 9037..9346, 9432..9756, 9827..9903		

Seq. No.	45030	Seq. ID	OJ000301_04.0403.C2
Gene No.	95118	Strand	-
Start	6588	End	9903
Name	OJ000301_04.0403.C2.o2.np	Method	AAT/NAP
Start	6941	End	9604
GI	7475143	Score	403
Exons	6941..7112, 7797..7852, 7895..8011, 8460..8634, 8714..8888, 9040..9346, 9432..9604		
GI Descrip.	hypothetical protein ykrT - Bacillus subtilis gi 2633727 emb CAB13229.1  (Z99111) ykrT [Bacillus subtilis]		

Seq. No.	45030	Seq. ID	OJ000301_04.0403.C2
Gene No.	95118	Strand	-
Start	6588	End	9903
Name	OJ000301_04.0403.C2.o4.ts	Method	TBLASTX:Soybean
Start	6950	End	7120
GI	none	Score	79
Exons	6950..7120, 6968..7114, 6969..7115		

Seq. No.	45030	Seq. ID	OJ000301_04.0403.C2
Gene No.	95118	Strand	-
Start	6588	End	9903
Name	OJ000301_04.0403.C2.o2.tc	Method	TBLASTX:Cress
Start	6956	End	8009
GI	none	Score	107
Exons	6956..7114, 6972..7124, 6978..7115, 7791..8006, 7792..8007, 7792..8007, 7796..8008, 7800..8009		

Seq. No.	45030	Seq. ID	OJ000301_04.0403.C2
Gene No.	95118	Strand	-
Start	6588	End	9903
Name	OJ000301_04.0403.C2.o2.ts	Method	TBLASTX:Soybean
Start	7904	End	9103
GI	none	Score	81
Exons	7904..8014, 7905..8012, 8404..8637, 8433..8636, 8437..8640, 8576..8641, 8712..8888, 8714..8893, 8716..8889, 9041..9103		

Seq. No.	45030	Seq. ID	OJ000301_04.0403.C2
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Gene No.	95118	Strand	-
Start	6588	End	9903
Name	OJ000301_04.0403.C2.o1.ts	Method	TBLASTX:Soybean
Start	9104	End	9602
GI	none	Score	196
Exons	9104..9349, 9129..9347, 9179..9349, 9432..9602, 9433..9600		

Seq. No.	45030	Seq. ID	OJ000301_04.0403.C2
Gene No.	95118	Strand	-
Start	6588	End	9903
Name	OJ000301_04.0403.C2.o1.tc	Method	TBLASTX:Cress
Start	9134	End	9602
GI	none	Score	203
Exons	9134..9349, 9135..9374, 9432..9521, 9433..9510, 9531..9602		

Seq. No.	45030	Seq. ID	OJ000301_04.0403.C2
Gene No.	95118	Strand	-
Start	6588	End	9903
Name	OJ000301_04.0403.C2.o2.gp	Method	AAT/GAP
Start	9165	End	9794
GI	26361_1.R1084	Score	1050
Exons	9165..9346, 9432..9794		
GI Descrip.	'2633727/emb CAB13229  7.0e-13 (Z99111) ykrT [Bacillus subtilis]'		

Seq. No.	45031	Seq. ID	OJ000301_04.0403.C3
Gene No.	95119	Strand	-
Start	564	End	1280
Name	OJ000301_04.0403.C3.o1.gs	Method	GENSCAN
Start	564	End	1280
GI	none	Score	.61
Exons	564..720, 1154..1280		

Seq. No.	45032	Seq. ID	OJ000301_04.0403.C4
Gene No.	95120	Strand	+
Start	4943	End	6707
Name	OJ000301_04.0403.C4.o4.gp	Method	AAT/GAP
Start	4893	End	6572
GI	20664_1.R1084	Score	851
Exons	4893..4994, 5082..5262, 6106..6247, 6368..6437, 6553..6572		
GI Descrip.	'4662633/gb AAD26905.1 AC007267_5 2.0e-10 (AC007267) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	45032	Seq. ID	OJ000301_04.0403.C4
Gene No.	95120	Strand	+
Start	4943	End	6707
Name	OJ000301_04.0403.C4.o2.np	Method	AAT/NAP
Start	4925	End	6705
GI	6822058	Score	253
Exons	4925..4994, 5082..5262, 6106..6247, 6368..6437, 6553..6705		
GI Descrip.	(AL132957) putative protein [Arabidopsis thaliana]		

Seq. No.	45032	Seq. ID	OJ000301_04.0403.C4
Gene No.	95120	Strand	+
Start	4943	End	6707
Name	OJ000301_04.0403.C4.o2.gs	Method	GENSCAN
Start	4943	End	6707

GI none Score .93  
Exons 4943..4994, 5082..5262, 6106..6247, 6368..6437, 6553..6707

Seq. No. 45032 Seq. ID OJ000301\_04.0403.C4  
Gene No. 95121 Strand -  
Start 1 End 3632  
Name OJ000301\_04.0403.C4.o1.gp Method AAT/GAP  
Start 1 End 1601  
GI 1735\_1.R1084 Score 916  
Exons 1..116, 555..769, 1409..1601  
GI Descrip. '2633727|emb|CAB13229| 1.0e-23 (Z99111) ykrT [Bacillus subtilis]'

Seq. No. 45032 Seq. ID OJ000301\_04.0403.C4  
Gene No. 95121 Strand -  
Start 1 End 3632  
Name OJ000301\_04.0403.C4.o1.np Method AAT/NAP  
Start 1 End 2540  
GI 7475143 Score 359  
Exons 1..116, 555..610, 653..769, 1436..1610, 1688..1862, 1966..2270, 2368..2540  
GI Descrip. hypothetical protein ykrT - Bacillus subtilis  
gi|2633727|emb|CAB13229.1| (Z99111) ykrT [Bacillus subtilis]

Seq. No. 45032 Seq. ID OJ000301\_04.0403.C4  
Gene No. 95121 Strand -  
Start 1 End 3632  
Name OJ000301\_04.0403.C4.o1.tm Method TBLASTX:Maize  
Start 2 End 2542  
GI none Score 148  
Exons 2..118, 3..119, 547..771, 554..772, 555..776, 1409..1609, 1410..1613, 1414..1617, 1687..1863, 1688..1864, 1958..2029, 1961..2029, 1962..2273, 1963..2271, 2013..2273, 2129..2275, 2185..2292, 2368..2445, 2369..2446, 2488..2541, 2489..2542

Seq. No. 45032 Seq. ID OJ000301\_04.0403.C4  
Gene No. 95121 Strand -  
Start 1 End 3632  
Name OJ000301\_04.0403.C4.o2.tc Method TBLASTX:Cress  
Start 2 End 767  
GI none Score 88  
Exons 2..118, 3..128, 8..133, 553..765, 554..766, 555..764, 558..767

Seq. No. 45032 Seq. ID OJ000301\_04.0403.C4  
Gene No. 95121 Strand -  
Start 1 End 3632  
Name OJ000301\_04.0403.C4.o1.gs Method GENSCAN  
Start 49 End 3632  
GI none Score .8  
Exons 49..116, 430..513, 555..769, 1409..1610, 1688..1862, 1961..2270, 2368..2759, 3515..3632

Seq. No. 45032 Seq. ID OJ000301\_04.0403.C4  
Gene No. 95121 Strand -  
Start 1 End 3632  
Name OJ000301\_04.0403.C4.o1.ts Method TBLASTX:Soybean  
Start 662 End 2111



GI	none	Score	87
Exons	662..772, 663..776, 1380..1613, 1409..1612, 1413..1616, 1688..1867, 1690..1863, 1965..2111, 1975..2106		

Seq. No.	45032	Seq. ID	OJ000301_04.0403.C4
Gene No.	95121	Strand	-
Start	1	End	3632
Name	OJ000301_04.0403.C4.o2.gp	Method	AAT/GAP
Start	1654	End	2096
GI	none	Score	499
Exons	1654..1862, 1961..2096		

Seq. No.	45032	Seq. ID	OJ000301_04.0403.C4
Gene No.	95121	Strand	-
Start	1	End	3632
Name	OJ000301_04.0403.C4.o1.tc	Method	TBLASTX:Cress
Start	2058	End	2538
GI	none	Score	181
Exons	2058..2273, 2059..2271, 2094..2273, 2368..2445, 2369..2446, 2488..2538, 2489..2533		

Seq. No.	45032	Seq. ID	OJ000301_04.0403.C4
Gene No.	95121	Strand	-
Start	1	End	3632
Name	OJ000301_04.0403.C4.o2.ts	Method	TBLASTX:Soybean
Start	2112	End	2538
GI	none	Score	118
Exons	2112..2273, 2113..2271, 2115..2273, 2368..2538, 2369..2536		

Seq. No.	45032	Seq. ID	OJ000301_04.0403.C4
Gene No.	95121	Strand	-
Start	1	End	3632
Name	OJ000301_04.0403.C4.o3.gp	Method	AAT/GAP
Start	2136	End	2696
GI	26361_1.R1084	Score	704
Exons	2136..2270, 2368..2696		
GI Descrip.	'2633727/emb CAB13229  7.0e-13 (Z99111) ykrT [Bacillus subtilis]'		

Seq. No.	45032	Seq. ID	OJ000301_04.0403.C4
Gene No.	95122	Strand	-
Start	5077	End	6733
Name	OJ000301_04.0403.C4.o2.tm	Method	TBLASTX:Maize
Start	5077	End	6733
GI	none	Score	220
Exons	5077..5262, 5078..5263, 6098..6247, 6102..6248, 6104..6259, 6361..6441, 6367..6438, 6393..6527, 6549..6707, 6551..6721, 6554..6733		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95123	Strand	+
Start	1159	End	2842
Name	OJ000301_04.0403.C5.o1.np	Method	AAT/NAP
Start	1159	End	2808
GI	7485903	Score	489
Exons	1159..1266, 1695..1824, 1867..2808		
GI Descrip.	hypothetical protein F2009.70 - Arabidopsis thaliana		

gi|2842481|emb|CAA16878.1| (AL021749) extensin-like protein  
 [Arabidopsis thaliana] gi|7269692|emb|CAB79640.1| (AL161572)  
 extensin-like protein [Arabidopsis thaliana]

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95123	Strand	+
Start	1159	End	2842
Name	OJ000301_04.0403.C5.o1.gs	Method	GENSCAN
Start	1499	End	2842
GI	none	Score	1
Exons	1499..2842		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95124	Strand	+
Start	7385	End	8240
Name	OJ000301_04.0403.C5.o3.gs	Method	GENSCAN
Start	7385	End	8240
GI	none	Score	.43
Exons	7385..7544, 7673..7748, 8093..8240		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95125	Strand	+
Start	8570	End	11941
Name	OJ000301_04.0403.C5.o3.np	Method	AAT/NAP
Start	8570	End	11858
GI	6907089	Score	4942
Exons	8570..9831, 9927..11858		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95125	Strand	+
Start	8570	End	11941
Name	OJ000301_04.0403.C5.o4.gs	Method	GENSCAN
Start	8570	End	11941
GI	none	Score	.88
Exons	8570..9831, 9927..11847, 11912..11941		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95126	Strand	+
Start	18717	End	18844
Name	OJ000301_04.0403.C5.o5.np	Method	AAT/NAP
Start	18717	End	18844
GI	5922623	Score	75
Exons	18717..18844		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa]		
	gi 6016856 dbj BAA85199.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95127	Strand	-
Start	3134	End	6536
Name	OJ000301_04.0403.C5.o1.gp	Method	AAT/GAP
Start	3134	End	6536
GI	559_1.R1084	Score	3372
Exons	3134..3463, 3774..4241, 4318..4458, 4555..4793, 5923..6536		
GI Descrip.	'129232/sp P25777 ORYB_ORYSA 0.0e+00 ORYZAIN BETA CHAIN PRECURSOR >gi_67645_pir_KHRZOB oryzain (EC 3.4.22.-) beta		

precursor - rice >gi\_218183\_dbj\_BAA14403\_ (D90407) oryzain beta precursor [Oryza sativa]'

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95127	Strand	-
Start	3134	End	6536
Name	OJ000301_04.0403.C5.o2.np	Method	AAT/NAP
Start	3382	End	6409
GI	129232	Score	2365
Exons	3382..3463, 3774..4241, 4318..4458, 4555..4793, 5923..6409		
GI Descrip.	ORYZAIN BETA CHAIN PRECURSOR gi 67645 pir  KHRZOB oryzain (EC 3.4.22.-) beta precursor - rice gi 218183 dbj BAA14403.1  (D90407) oryzain beta precursor [Oryza sativa]		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95127	Strand	-
Start	3134	End	6536
Name	OJ000301_04.0403.C5.o2.gs	Method	GENSCAN
Start	3398	End	6409
GI	none	Score	.78
Exons	3398..3463, 3774..4241, 4318..4458, 4555..4769, 5923..6409		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o6.tm	Method	TBLASTX:Maize
Start	1675	End	2065
GI	none	Score	127
Exons	1675..1800, 1676..1801, 1894..2055, 1895..2065		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o3.tc	Method	TBLASTX:Cress
Start	1684	End	2005
GI	none	Score	112
Exons	1684..1788, 1691..1801, 1826..1876, 1877..2005, 1885..2004		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o2.ts	Method	TBLASTX:Soybean
Start	1945	End	2707
GI	none	Score	81
Exons	1945..2010, 1946..2011, 2024..2311, 2029..2091, 2326..2610, 2327..2599, 2609..2707		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o10.tw	Method	TBLASTX:Wheat
Start	1994	End	7388
GI	none	Score	60
Exons	1994..2101, 2149..2421, 2153..2422, 2210..2332, 7308..7388		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-

Start	12486	End	18639
Name	OJ000301_04.0403.C5.o2.tm	Method	TBLASTX:Maize
Start	2191	End	2716
GI	none	Score	348
Exons	2191..2541, 2192..2542, 2366..2548, 2609..2716, 2609..2713		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o2.tc	Method	TBLASTX:Cress
Start	2236	End	2605
GI	none	Score	88
Exons	2236..2319, 2243..2317, 2326..2541, 2330..2542, 2345..2521, 2555..2605		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o1.tm	Method	TBLASTX:Maize
Start	3341	End	6359
GI	none	Score	39
Exons	3341..3403, 3387..3464, 3388..3465, 3776..3961, 3777..3962, 3779..3970, 4023..4238, 4023..4241, 4024..4242, 4316..4456, 4317..4457, 4318..4458, 4318..4458, 4555..4794, 4556..4795, 4556..4795, 5904..5963, 5921..5995, 5990..6037, 6006..6023, 6029..6121, 6039..6107, 6122..6205, 6144..6227, 6227..6250, 6230..6280, 6272..6337, 6291..6359		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o9.tw	Method	TBLASTX:Wheat
Start	3413	End	3940
GI	none	Score	94
Exons	3413..3463, 3762..3935, 3773..3940		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o1.tc	Method	TBLASTX:Cress
Start	3414	End	6352
GI	none	Score	65
Exons	3414..3464, 3776..3943, 3780..3953, 4015..4179, 4023..4223, 4023..4241, 4024..4242, 4307..4456, 4316..4456, 4318..4458, 4318..4458, 4552..4680, 4556..4705, 4556..4663, 4564..4677, 4684..4794, 4688..4795, 5921..6031, 6035..6118, 6048..6101, 6137..6286, 6144..6203, 6305..6352, 6306..6347		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o1.ts	Method	TBLASTX:Soybean
Start	3780	End	6352
GI	none	Score	52
Exons	3780..3959, 3782..3877, 3856..3960, 4023..4088, 4024..4089, 4089..4247, 4092..4235, 4114..4263, 4318..4458, 4334..4456, 4552..4683, 4555..4683, 4556..4723, 4687..4794, 4688..4795,		

5919..5960, 5921..6031, 6029..6118, 6036..6104, 6131..6205,  
6144..6206, 6308..6352

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o6.tw	Method	TBLASTX:Wheat
Start	4101	End	6202
GI	none	Score	61
Exons	4101..4163, 4101..4199, 4173..4253, 4345..4443, 4564..4677, 4693..4791, 5930..5998, 6059..6118, 6131..6202		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o3.tw	Method	TBLASTX:Wheat
Start	10411	End	16855
GI	none	Score	54
Exons	10411..10488, 16369..16854, 16400..16660, 16682..16855		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o5.gs	Method	GENSCAN
Start	12486	End	13787
GI	none	Score	.95
Exons	12486..13787		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o8.tm	Method	TBLASTX:Maize
Start	12486	End	12629
GI	none	Score	129
Exons	12486..12629, 12490..12624		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o4.np	Method	AAT/NAP
Start	12489	End	18639
GI	7228457	Score	9570
Exons	12489..14039, 14106..15256, 15379..16212, 16276..18211, 18273..18639		

GI Descrip. (AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type  
retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza  
sativa]

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o8.tw	Method	TBLASTX:Wheat
Start	12498	End	13077
GI	none	Score	75
Exons	12498..12623, 12502..12624, 12684..13052, 12816..13076, 12817..13074, 12817..13077		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o4.tw	Method	TBLASTX:Wheat
Start	13081	End	13482
GI	none	Score	171
Exons	13081..13380, 13101..13481, 13140..13481, 13426..13482		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o4.tm	Method	TBLASTX:Maize
Start	13296	End	13619
GI	none	Score	214
Exons	13296..13619, 13309..13590		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o11.tw	Method	TBLASTX:Wheat
Start	13812	End	14124
GI	none	Score	64
Exons	13812..14081, 13948..14124		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o4.ts	Method	TBLASTX:Soybean
Start	13872	End	14438
GI	5666795	Score	68
Exons	13872..14078, 14127..14264, 14340..14438		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o5.tw	Method	TBLASTX:Wheat
Start	14127	End	14585
GI	none	Score	73
Exons	14127..14264, 14127..14276, 14128..14265, 14310..14561, 14311..14496, 14331..14585		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o3.ts	Method	TBLASTX:Soybean
Start	15086	End	15555
GI	none	Score	80
Exons	15086..15127, 15185..15415, 15412..15555, 15413..15538		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o2.tw	Method	TBLASTX:Wheat
Start	15215	End	15634
GI	none	Score	117
Exons	15215..15421, 15222..15395, 15403..15633, 15404..15634		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o5.tm	Method	TBLASTX:Maize
Start	15308	End	15691
GI	none	Score	198
Exons	15308..15418, 15406..15690, 15407..15691		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o3.tm	Method	TBLASTX:Maize
Start	15718	End	16074
GI	none	Score	124
Exons	15718..16023, 15718..16074, 15728..16039		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o1.tw	Method	TBLASTX:Wheat
Start	15742	End	16205
GI	none	Score	227
Exons	15742..16203, 15748..16203, 15749..16204, 15762..16205		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o5.ts	Method	TBLASTX:Soybean
Start	15799	End	16164
GI	none	Score	113
Exons	15799..15933, 15940..16164		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o7.gs	Method	GENSCAN
Start	16213	End	18639
GI	none	Score	.87
Exons	16213..18639		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o7.tw	Method	TBLASTX:Wheat
Start	17593	End	18145
GI	none	Score	86
Exons	17593..17850, 17672..17866, 17833..17931, 17834..17926, 17938..17985, 18110..18145		

Seq. No.	45033	Seq. ID	OJ000301_04.0403.C5
Gene No.	95128	Strand	-
Start	12486	End	18639
Name	OJ000301_04.0403.C5.o7.tm	Method	TBLASTX:Maize
Start	17695	End	17980
GI	none	Score	92
Exons	17695..17943, 17696..17980		

Seq. No.	45034	Seq. ID	OJ000301_04.0403.C6
Gene No.	95129	Strand	+
Start	450	End	1131
Name	OJ000301_04.0403.C6.ol.gs	Method	GENSCAN
Start	450	End	1131
GI	none	Score	.63
Exons	450..618, 945..1131		

Seq. No.	45034	Seq. ID	OJ000301_04.0403.C6
Gene No.	95130	Strand	-
Start	582	End	765
Name	OJ000301_04.0403.C6.ol.np	Method	AAT/NAP
Start	582	End	765
GI	7106512	Score	136
Exons	582..632, 706..765		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	45035	Seq. ID	OJ000301_04.0403.C7
Gene No.	95131	Strand	-
Start	357	End	1676
Name	OJ000301_04.0403.C7.ol.gs	Method	GENSCAN
Start	357	End	1369
GI	none	Score	.95
Exons	357..685, 1042..1369		

Seq. No.	45035	Seq. ID	OJ000301_04.0403.C7
Gene No.	95131	Strand	-
Start	357	End	1676
Name	OJ000301_04.0403.C7.ol.np	Method	AAT/NAP
Start	411	End	1676
GI	7106512	Score	1687
Exons	411..784, 839..1676		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	45036	Seq. ID	OJ000301_04.0403.C8
Gene No.	95132	Strand	-
Start	1	End	3057
Name	OJ000301_04.0403.C8.ol.np	Method	AAT/NAP
Start	1	End	3057
GI	7106512	Score	2735
Exons	1..553, 720..1128, 1218..2037, 2507..2623, 2758..2924, 2998..3057		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	45036	Seq. ID	OJ000301_04.0403.C8
Gene No.	95133	Strand	-
Start	5803	End	6045
Name	OJ000301_04.0403.C8.ol.gp	Method	AAT/GAP
Start	5803	End	6045
GI	2797265	Score	470
Exons	5803..6045		

Seq. No.	45036	Seq. ID	OJ000301_04.0403.C8
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Gene No.	95134	Strand	
Start	7992	End	8534
Name	OJ000301_04.0403.C8.o1.tm	Method	TBLASTX:Maize
Start	7992	End	8534
GI	none	Score	74
Exons	7992..8087, 8003..8095, 8179..8349, 8200..8352, 8456..8530, 8466..8534, 8469..8531		

Seq. No.	45037	Seq. ID	OJ000301_04.0403.C9
Gene No.	95135	Strand	+
Start	1396	End	3005
Name	OJ000301_04.0403.C9.o1.np	Method	AAT/NAP
Start	1396	End	3005
GI	129232	Score	1653
Exons	1396..2733, 2927..3005		
GI Descrip.	ORYZAIN BETA CHAIN PRECURSOR gi 67645 pir  KHRZOB oryzain (EC 3.4.22.-) beta precursor - rice gi 218183 dbj BAA14403.1  (D90407) oryzain beta precursor [Oryza sativa]		

Seq. No.	45037	Seq. ID	OJ000301_04.0403.C9
Gene No.	95136	Strand	+
Start	4451	End	6277
Name	OJ000301_04.0403.C9.o1.gp	Method	AAT/GAP
Start	4451	End	5254
GI	LIB3432-014-P1-K1-E9	Score	818
Exons	4451..4835, 5205..5254		
GI Descrip.	'565652/dbj D28135 HYMRUBSCO 2.0e-10 Hydrogenovibrio marinus gene for ribulose-bisphosphate carboxylase, complete cds'		

Seq. No.	45037	Seq. ID	OJ000301_04.0403.C9
Gene No.	95136	Strand	+
Start	4451	End	6277
Name	OJ000301_04.0403.C9.o2.np	Method	AAT/NAP
Start	4524	End	6206
GI	7406453	Score	616
Exons	4524..4835, 5205..5272, 5364..5495, 5581..5696, 5822..5936, 6023..6206		
GI Descrip.	(AL162875) putative protein [Arabidopsis thaliana]		

Seq. No.	45037	Seq. ID	OJ000301_04.0403.C9
Gene No.	95136	Strand	+
Start	4451	End	6277
Name	OJ000301_04.0403.C9.o2.gp	Method	AAT/GAP
Start	5378	End	6277
GI	4715716	Score	1018
Exons	5378..5495, 5581..5696, 5822..5936, 6023..6277		
GI Descrip.	565652/dbj D28135 HYMRUBSCO 2.0e-10 Hydrogenovibrio marinus gene for ribulose-bisphosphate carboxylase, complete cds		

Seq. No.	45037	Seq. ID	OJ000301_04.0403.C9
Gene No.	95137	Strand	+
Start	11200	End	13452
Name	OJ000301_04.0403.C9.o3.gp	Method	AAT/GAP
Start	11068	End	11431
GI	2311047	Score	502
Exons	11068..11304, 11386..11431		

Seq. No.	45037	Seq. ID	OJ000301_04.0403.C9
Gene No.	95137	Strand	+
Start	11200	End	13452
Name	OJ000301_04.0403.C9.o4.gs	Method	GENSCAN
Start	11200	End	13452
GI	none	Score	.99
Exons	11200..11304, 11386..11537, 11647..11772, 13290..13452		

Seq. No.	45037	Seq. ID	OJ000301_04.0403.C9
Gene No.	95137	Strand	+
Start	11200	End	13452
Name	OJ000301_04.0403.C9.o4.np	Method	AAT/NAP
Start	11212	End	13452
GI	7527718	Score	172
Exons	11212..11304, 11386..11548, 11701..11953, 13283..13452		
GI Descrip.	(AC010657) T5E21.7 [Arabidopsis thaliana]		

Seq. No.	45037	Seq. ID	OJ000301_04.0403.C9
Gene No.	95138	Strand	-
Start	294	End	820
Name	OJ000301_04.0403.C9.o1.gs	Method	GENSCAN
Start	294	End	820
GI	none	Score	.61
Exons	294..376, 465..639, 737..820		

Seq. No.	45037	Seq. ID	OJ000301_04.0403.C9
Gene No.	95139	Strand	-
Start	6668	End	10026
Name	OJ000301_04.0403.C9.o1.tc	Method	TBLASTX:Cress
Start	1480	End	2727
GI	none	Score	42
Exons	1480..1515, 1528..1569, 1620..1679, 1621..1686, 1705..1797, 1722..1775, 1792..1872, 1827..1877, 1861..1965, 1872..1964, 2020..2322, 2025..2321, 2374..2487, 2388..2474, 2551..2727, 2553..2705		

Seq. No.	45037	Seq. ID	OJ000301_04.0403.C9
Gene No.	95139	Strand	-
Start	6668	End	10026
Name	OJ000301_04.0403.C9.o1.tm	Method	TBLASTX:Maize
Start	1480	End	2741
GI	none	Score	120
Exons	1480..1572, 1519..1542, 1620..1679, 1621..1701, 1702..1797, 1716..1775, 1785..2321, 1786..1824, 1828..1872, 1873..2322, 2374..2487, 2382..2480, 2474..2509, 2475..2510, 2554..2730, 2556..2741		

Seq. No.	45037	Seq. ID	OJ000301_04.0403.C9
Gene No.	95139	Strand	-
Start	6668	End	10026
Name	OJ000301_04.0403.C9.o1.ts	Method	TBLASTX:Soybean
Start	1528	End	2741
GI	none	Score	39
Exons	1528..1569, 1620..1679, 1621..1692, 1705..1773, 1719..1775, 1809..1871, 1828..1872, 1861..1965, 1872..1964, 2013..2318, 2014..2322, 2374..2442, 2388..2423, 2446..2487, 2554..2733, 2568..2741		

Seq. No.	45037	Seq. ID	OJ000301_04.0403.C9
Gene No.	95139	Strand	-
Start	6668	End	10026
Name	OJ000301_04.0403.C9.o1.tw	Method	TBLASTX:Wheat
Start	1621	End	2430
GI	none	Score	71
Exons	1621..1692, 1719..1760, 1825..1965, 1827..1964, 2020..2256, 2025..2123, 2129..2149, 2257..2430		

Seq. No.	45037	Seq. ID	OJ000301_04.0403.C9
Gene No.	95139	Strand	-
Start	6668	End	10026
Name	OJ000301_04.0403.C9.o3.tw	Method	TBLASTX:Wheat
Start	2565	End	2727
GI	none	Score	228
Exons	2565..2726, 2566..2727		

Seq. No.	45037	Seq. ID	OJ000301_04.0403.C9
Gene No.	95139	Strand	-
Start	6668	End	10026
Name	OJ000301_04.0403.C9.o2.ts	Method	TBLASTX:Soybean
Start	5361	End	6200
GI	none	Score	157
Exons	5361..5495, 5362..5493, 5814..5930, 5815..5931, 6023..6187, 6024..6200		

Seq. No.	45037	Seq. ID	OJ000301_04.0403.C9
Gene No.	95139	Strand	-
Start	6668	End	10026
Name	OJ000301_04.0403.C9.o2.tm	Method	TBLASTX:Maize
Start	5368	End	6208
GI	none	Score	176
Exons	5368..5496, 5368..5496, 5556..5669, 5557..5664, 5564..5698, 5567..5698, 5820..5933, 5821..5937, 6009..6200, 6020..6199, 6024..6203, 6068..6208		

Seq. No.	45037	Seq. ID	OJ000301_04.0403.C9
Gene No.	95139	Strand	-
Start	6668	End	10026
Name	OJ000301_04.0403.C9.o3.gs	Method	GENSCAN
Start	6668	End	9999
GI	none	Score	.95
Exons	6668..7219, 9113..9138, 9411..9999		

Seq. No.	45037	Seq. ID	OJ000301_04.0403.C9
Gene No.	95139	Strand	-
Start	6668	End	10026
Name	OJ000301_04.0403.C9.o3.np	Method	AAT/NAP
Start	6671	End	10026
GI	5091619	Score	1339
Exons	6671..7219, 8326..8579, 9411..10026		
GI Descrip.	(AC007454) F23M19.7 [Arabidopsis thaliana]		

Seq. No.	45037	Seq. ID	OJ000301_04.0403.C9
Gene No.	95139	Strand	-
Start	6668	End	10026

Name	OJ000301_04.0403.C9.o3.tm	Method	TBLASTX:Maize
Start	6737	End	8547
GI	none	Score	110
Exons	6737..6793, 6830..7222, 7011..7133, 8332..8370, 8407..8460, 8512..8547		

Seq. No.	45037	Seq. ID	OJ000301_04.0403.C9
Gene No.	95139	Strand	-
Start	6668	End	10026
Name	OJ000301_04.0403.C9.o2.tc	Method	TBLASTX:Cress
Start	6833	End	7220
GI	none	Score	98
Exons	6833..7219, 7011..7220		

Seq. No.	45037	Seq. ID	OJ000301_04.0403.C9
Gene No.	95139	Strand	-
Start	6668	End	10026
Name	OJ000301_04.0403.C9.o2.tw	Method	TBLASTX:Wheat
Start	6836	End	7202
GI	none	Score	70
Exons	6836..7201, 6884..7117, 7011..7202		

Seq. No.	45037	Seq. ID	OJ000301_04.0403.C9
Gene No.	95139	Strand	-
Start	6668	End	10026
Name	OJ000301_04.0403.C9.o3.ts	Method	TBLASTX:Soybean
Start	6974	End	7219
GI	none	Score	65
Exons	6974..7219, 6986..7096, 7011..7121		

Seq. No.	45037	Seq. ID	OJ000301_04.0403.C9
Gene No.	95140	Strand	-
Start	11190	End	11767
Name	OJ000301_04.0403.C9.o5.tm	Method	TBLASTX:Maize
Start	11190	End	11767
GI	none	Score	151
Exons	11190..11297, 11191..11304, 11364..11444, 11371..11445, 11509..11631, 11645..11713, 11645..11701, 11693..11758, 11699..11767		

Seq. No.	45037	Seq. ID	OJ000301_04.0403.C9
Gene No.	95141	Strand	-
Start	13291	End	13459
Name	OJ000301_04.0403.C9.o4.tm	Method	TBLASTX:Maize
Start	13291	End	13459
GI	none	Score	240
Exons	13291..13452, 13293..13451, 13297..13452, 13298..13459		

Seq. No.	45038	Seq. ID	OJ000301_04.0403.C16
Gene No.	95142	Strand	+
Start	508	End	730
Name	OJ000301_04.0403.C16.o1.gs	Method	GENSCAN
Start	508	End	730
GI	none	Score	.66
Exons	508..730		

Seq. No.	45038	Seq. ID	OJ000301_04.0403.C16
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Gene No. 95143 Strand +  
 Start 3128 End 7595  
 Name OJ000301\_04.0403.C16.o1.np Method AAT/NAP  
 Start 3128 End 7595  
 GI 4102600 Score 1533  
 Exons 3128..3173, 3590..3699, 3815..3913, 4040..4096, 4215..4370,  
 4473..4557, 5340..5430, 5516..5680, 5763..5885, 6202..6277,  
 6490..6646, 7246..7595  
 GI Descrip. (AF013467) ARF6 [Arabidopsis thaliana]

Seq. No. 45038 Seq. ID OJ000301\_04.0403.C16  
 Gene No. 95143 Strand +  
 Start 3128 End 7595  
 Name OJ000301\_04.0403.C16.o1.gp Method AAT/GAP  
 Start 3134 End 3385  
 GI uC-osflm202112h06b1 Score 204  
 Exons 3134..3207, 3318..3385  
 GI Descrip. '1174745/sp|P46225|TPIC\_SECCE 8.0e-16 TRIOSEPHOSPHATE ISOMERASE,  
 CHLOROPLAST PRECURSOR (TIM) >gi\_1363523\_pir\_S53761  
 triose-phosphate isomerase (EC 5.3.1.1) precursor, chloroplast -  
 rye >gi\_609262\_emb\_CAA83533 (Z32521) triosephosphate isomerase  
 [Secale cereale] >gi\_1095494\_prf\_2109226B triosephosphate  
 isomerase [Secale cereale]'

Seq. No. 45038 Seq. ID OJ000301\_04.0403.C16  
 Gene No. 95143 Strand +  
 Start 3128 End 7595  
 Name OJ000301\_04.0403.C16.o2.gp Method AAT/GAP  
 Start 6217 End 7487  
 GI 3761532 Score 790  
 Exons 6217..6277, 6490..6637, 7246..7487  
 GI Descrip. 4104931/gb|AAD02219.1| 2.0e-37 (AF042196) auxin response factor  
 8 [Arabidopsis thaliana]

Seq. No. 45038 Seq. ID OJ000301\_04.0403.C16  
 Gene No. 95143 Strand +  
 Start 3128 End 7595  
 Name OJ000301\_04.0403.C16.o3.gp Method AAT/GAP  
 Start 7483 End 7595  
 GI 46523\_1.R1084 Score 226  
 Exons 7483..7595  
 GI Descrip. '4104931/gb|AAD02219.1| 2.0e-37 (AF042196) auxin response factor  
 8 [Arabidopsis thaliana]'

Seq. No. 45038 Seq. ID OJ000301\_04.0403.C16  
 Gene No. 95144 Strand -  
 Start 1439 End 7595  
 Name OJ000301\_04.0403.C16.o2.gs Method GENSCAN  
 Start 1439 End 7464  
 GI none Score .41  
 Exons 1439..1590, 3167..3671, 3716..4105, 4236..4435, 6394..6508,  
 7321..7464

Seq. No. 45038 Seq. ID OJ000301\_04.0403.C16  
 Gene No. 95144 Strand -  
 Start 1439 End 7595  
 Name OJ000301\_04.0403.C16.o1.tc Method TBLASTX:Cress

Start	3588	End	7361
GI	none	Score	184
Exons	3588..3701, 3589..3714, 3812..3913, 3814..3912, 4028..4093, 4036..4092, 4205..4372, 4215..4370, 4473..4559, 4481..4558, 4482..4562, 5332..5427, 5339..5431, 5480..5677, 5499..5681, 5502..5681, 5760..5882, 5761..5886, 5761..5886, 5762..5887, 6200..6280, 6200..6271, 6202..6279, 6480..6638, 6487..6639, 6489..6638, 7293..7361		

Seq. No.	45038	Seq. ID	OJ000301_04.0403.C16
Gene No.	95144	Strand	-
Start	1439	End	7595
Name	OJ000301_04.0403.C16.o1.tm	Method	TBLASTX:Maize
Start	3588	End	5404
GI	none	Score	191
Exons	3588..3701, 3589..3714, 3812..3913, 3814..3912, 3847..3915, 3888..3920, 4028..4096, 4036..4098, 4205..4372, 4215..4370, 4262..4372, 4472..4558, 4473..4559, 5332..5403, 5339..5404		

Seq. No.	45038	Seq. ID	OJ000301_04.0403.C16
Gene No.	95144	Strand	-
Start	1439	End	7595
Name	OJ000301_04.0403.C16.o3.ts	Method	TBLASTX:Soybean
Start	3588	End	3714
GI	none	Score	199
Exons	3588..3701, 3589..3714		

Seq. No.	45038	Seq. ID	OJ000301_04.0403.C16
Gene No.	95144	Strand	-
Start	1439	End	7595
Name	OJ000301_04.0403.C16.o1.ts	Method	TBLASTX:Soybean
Start	3830	End	4559
GI	4306688	Score	131
Exons	3830..3913, 3832..3912, 4034..4096, 4036..4095, 4215..4370, 4217..4372, 4232..4381, 4469..4549, 4472..4558, 4473..4559		
GI Descrip.	-		

Seq. No.	45038	Seq. ID	OJ000301_04.0403.C16
Gene No.	95144	Strand	-
Start	1439	End	7595
Name	OJ000301_04.0403.C16.o2.tm	Method	TBLASTX:Maize
Start	5496	End	6591
GI	none	Score	232
Exons	5496..5681, 5512..5682, 5516..5680, 5761..5886, 5763..5879, 5779..5883, 6200..6280, 6202..6279, 6450..6575, 6487..6591, 6489..6590		

Seq. No.	45038	Seq. ID	OJ000301_04.0403.C16
Gene No.	95144	Strand	-
Start	1439	End	7595
Name	OJ000301_04.0403.C16.o2.ts	Method	TBLASTX:Soybean
Start	5561	End	6636
GI	none	Score	148
Exons	5561..5677, 5562..5681, 5562..5681, 5760..5888, 5761..5886, 5762..5887, 6199..6279, 6200..6280, 6482..6583, 6487..6636, 6489..6632		

Seq. No.	45038	Seq. ID	OJ000301_04.0403.C16
Gene No.	95144	Strand	-
Start	1439	End	7595
Name	OJ000301_04.0403.C16.o3.tm	Method	TBLASTX:Maize
Start	6592	End	7595
GI	none	Score	70
Exons	6592..6636, 7241..7507, 7245..7595		

Seq. No.	45039	Seq. ID	OJ000301_04.0403.C17
Gene No.	95145	Strand	+
Start	220	End	1444
Name	OJ000301_04.0403.C17.o1.gp	Method	AAT/GAP
Start	220	End	1043
GI	36294_1.R1084	Score	874
Exons	220..342, 670..1043		
GI Descrip.	'4102600/gb AAD01513.1  4.0e-42 (AF013467) ARF6 [Arabidopsis thaliana]'		

Seq. No.	45039	Seq. ID	OJ000301_04.0403.C17
Gene No.	95145	Strand	+
Start	220	End	1444
Name	OJ000301_04.0403.C17.o1.np	Method	AAT/NAP
Start	220	End	332
GI	4104931	Score	71
Exons	220..332		
GI Descrip.	(AF042196) auxin response factor 8 [Arabidopsis thaliana]		

Seq. No.	45039	Seq. ID	OJ000301_04.0403.C17
Gene No.	95145	Strand	+
Start	220	End	1444
Name	OJ000301_04.0403.C17.o1.gs	Method	GENSCAN
Start	328	End	1444
GI	none	Score	.74
Exons	328..342, 670..832, 1365..1444		

Seq. No.	45039	Seq. ID	OJ000301_04.0403.C17
Gene No.	95146	Strand	+
Start	3194	End	6107
Name	OJ000301_04.0403.C17.o2.np	Method	AAT/NAP
Start	2675	End	6107
GI	4038036	Score	386
Exons	2675..2747, 3273..3340, 4348..4458, 4683..5174, 5256..6107		
GI Descrip.	(AC005936) unknown protein [Arabidopsis thaliana]		

Seq. No.	45039	Seq. ID	OJ000301_04.0403.C17
Gene No.	95146	Strand	+
Start	3194	End	6107
Name	OJ000301_04.0403.C17.o2.gs	Method	GENSCAN
Start	3194	End	6051
GI	none	Score	.99
Exons	3194..3340, 4348..4458, 4683..6051		

Seq. No.	45039	Seq. ID	OJ000301_04.0403.C17
Gene No.	95146	Strand	+
Start	3194	End	6107
Name	OJ000301_04.0403.C17.o2.tm	Method	TBLASTX:Maize
Start	3257	End	4458

GI	none	Score	138
Exons	3257..3340, 3263..3340, 4345..4458, 4347..4454		
Seq. No.	45039	Seq. ID	OJ000301_04.0403.C17
Gene No.	95146	Strand	+
Start	3194	End	6107
Name	OJ000301_04.0403.C17.o1.ts	Method	TBLASTX:Soybean
Start	3260	End	4781
GI	none	Score	118
Exons	3260..3340, 4345..4458, 4347..4451, 4707..4781		

Seq. No.	45039	Seq. ID	OJ000301_04.0403.C17
Gene No.	95146	Strand	+
Start	3194	End	6107
Name	OJ000301_04.0403.C17.o1.tc	Method	TBLASTX:Cress
Start	3272	End	5357
GI	none	Score	109
Exons	3272..3340, 4345..4458, 4347..4451, 4701..4838, 5252..5314, 5256..5357		

Seq. No.	45039	Seq. ID	OJ000301_04.0403.C17
Gene No.	95146	Strand	+
Start	3194	End	6107
Name	OJ000301_04.0403.C17.o1.tm	Method	TBLASTX:Maize
Start	4682	End	5375
GI	none	Score	120
Exons	4682..4915, 4685..4921, 4689..4922, 5138..5314, 5139..5375, 5146..5319, 5154..5324		

Seq. No.	45040	Seq. ID	OJ000301_04.0403.C18
Gene No.	95147	Strand	+
Start	1	End	11776
Name	OJ000301_04.0403.C18.o1.gp	Method	AAT/GAP
Start	1	End	160
GI	none	Score	269
Exons	1..160		

Seq. No.	45040	Seq. ID	OJ000301_04.0403.C18
Gene No.	95147	Strand	+
Start	1	End	11776
Name	OJ000301_04.0403.C18.o2.np	Method	AAT/NAP
Start	1	End	11776
GI	6069646	Score	326
Exons	1..125, 7152..7729, 11715..11776		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	45040	Seq. ID	OJ000301_04.0403.C18
Gene No.	95147	Strand	+
Start	1	End	11776
Name	OJ000301_04.0403.C18.o1.gs	Method	GENSCAN
Start	1329	End	1483
GI	none	Score	.58
Exons	1329..1483		



Seq. No.	45040	Seq. ID	OJ000301_04.0403.C18
Gene No.	95147	Strand	+
Start	1	End	11776
Name	OJ000301_04.0403.C18.o1.tm	Method	TBLASTX:Maize
Start	1949	End	4713
GI	none	Score	93
Exons	1949..2071, 2009..2071, 2010..2087, 2026..2103, 2157..2279, 2160..2279, 2160..2279, 2161..2301, 2162..2302, 2165..2254, 3136..3252, 3136..3546, 3136..3252, 3136..3471, 3138..3266, 3156..3506, 3231..3581, 3250..3579, 3423..3584, 3680..3733, 3680..4057, 3691..4062, 3698..3955, 3699..4061, 3699..3983, 3699..4070, 3699..3950, 3782..4063, 3948..4061, 4511..4699, 4511..4708, 4516..4713, 4516..4707, 4528..4710		

Seq. No.	45040	Seq. ID	OJ000301_04.0403.C18
Gene No.	95147	Strand	+
Start	1	End	11776
Name	OJ000301_04.0403.C18.o1.tw	Method	TBLASTX:Wheat
Start	2003	End	3968
GI	none	Score	88
Exons	2003..2071, 2003..2071, 2019..2090, 2160..2279, 2162..2254, 3128..3268, 3136..3270, 3137..3265, 3138..3269, 3698..3967, 3699..3968		

Seq. No.	45040	Seq. ID	OJ000301_04.0403.C18
Gene No.	95147	Strand	+
Start	1	End	11776
Name	OJ000301_04.0403.C18.o1.np	Method	AAT/NAP
Start	2014	End	4702
GI	6728990	Score	1507
Exons	2014..2070, 2163..2279, 3139..3579, 3699..4061, 4517..4702		
GI Descrip.	(AC018363) unknown protein [Arabidopsis thaliana]		

Seq. No.	45040	Seq. ID	OJ000301_04.0403.C18
Gene No.	95147	Strand	+
Start	1	End	11776
Name	OJ000301_04.0403.C18.o2.gs	Method	GENSCAN
Start	2017	End	6546
GI	none	Score	.9
Exons	2017..2070, 2163..2279, 3139..3579, 3699..4061, 4517..4693, 4937..5126, 5821..5885, 6403..6546		

Seq. No.	45040	Seq. ID	OJ000301_04.0403.C18
Gene No.	95147	Strand	+
Start	1	End	11776
Name	OJ000301_04.0403.C18.o1.tc	Method	TBLASTX:Cress
Start	2020	End	4564
GI	none	Score	84
Exons	2020..2103, 2160..2279, 2165..2254, 3136..3240, 3156..3233, 3226..3270, 3226..3276, 3370..3396, 3496..3579, 3496..3579, 3498..3581, 3697..3870, 3698..3931, 3699..3938, 3923..3967, 3924..3968, 4025..4057, 4026..4061, 4523..4564		

Seq. No.	45040	Seq. ID	OJ000301_04.0403.C18
Gene No.	95147	Strand	+
Start	1	End	11776

Name	OJ000301_04.0403.C18.o1.ts	Method	TBLASTX:Soybean
Start	2026	End	4045
GI	none	Score	83
Exons	2026..2103, 2160..2279, 3136..3345, 3156..3347, 3547..3579, 3698..4045, 3699..4043, 3700..4044		

Seq. No.	45040	Seq. ID	OJ000301_04.0403.C18
Gene No.	95147	Strand	+
Start	1	End	11776
Name	OJ000301_04.0403.C18.o2.tc	Method	TBLASTX:Cress
Start	3327	End	4705
GI	none	Score	37
Exons	3327..3353, 3328..3363, 3403..3489, 3405..3485, 4516..4698, 4565..4705, 4577..4702		

Seq. No.	45040	Seq. ID	OJ000301_04.0403.C18
Gene No.	95147	Strand	+
Start	1	End	11776
Name	OJ000301_04.0403.C18.o2.ts	Method	TBLASTX:Soybean
Start	3403	End	4705
GI	none	Score	118
Exons	3403..3546, 3405..3533, 4556..4705, 4556..4693, 4558..4701		

Seq. No.	45040	Seq. ID	OJ000301_04.0403.C18
Gene No.	95147	Strand	+
Start	1	End	11776
Name	OJ000301_04.0403.C18.o2.tw	Method	TBLASTX:Wheat
Start	7281	End	7603
GI	none	Score	177
Exons	7281..7595, 7472..7603		

Seq. No.	45040	Seq. ID	OJ000301_04.0403.C18
Gene No.	95147	Strand	+
Start	1	End	11776
Name	OJ000301_04.0403.C18.o2.tm	Method	TBLASTX:Maize
Start	7344	End	7729
GI	none	Score	172
Exons	7344..7583, 7344..7541, 7577..7729		

Seq. No.	45041	Seq. ID	OJ000301_04.0403.C19
Gene No.	95148	Strand	+
Start	1	End	2442
Name	OJ000301_04.0403.C19.o1.np	Method	AAT/NAP
Start	1	End	2436
GI	3777527	Score	1978
Exons	1..595, 680..2436		
GI Descrip.	(AF053008) gag-pol polyprotein [Glycine max]		

Seq. No.	45041	Seq. ID	OJ000301_04.0403.C19
Gene No.	95148	Strand	+
Start	1	End	2442
Name	OJ000301_04.0403.C19.o1.gs	Method	GENSCAN
Start	54	End	2442
GI	none	Score	.75
Exons	54..2442		

Seq. No.	45041	Seq. ID	OJ000301_04.0403.C19
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Gene No.	95149	Strand	+
Start	3967	End	4129
Name	OJ000301_04.0403.C19.o3.tm	Method	TBLASTX:Maize
Start	1	End	570
GI	none	Score	420
Exons	1..423, 93..422, 335..436, 418..570		

Seq. No.	45041	Seq. ID	OJ000301_04.0403.C19
Gene No.	95149	Strand	+
Start	3967	End	4129
Name	OJ000301_04.0403.C19.o3.tw	Method	TBLASTX:Wheat
Start	4	End	426
GI	none	Score	171
Exons	4..318, 342..404, 346..426		

Seq. No.	45041	Seq. ID	OJ000301_04.0403.C19
Gene No.	95149	Strand	+
Start	3967	End	4129
Name	OJ000301_04.0403.C19.o3.ts	Method	TBLASTX:Soybean
Start	109	End	570
GI	none	Score	270
Exons	109..420, 120..413, 432..551, 442..570		

Seq. No.	45041	Seq. ID	OJ000301_04.0403.C19
Gene No.	95149	Strand	+
Start	3967	End	4129
Name	OJ000301_04.0403.C19.o3.tc	Method	TBLASTX:Cress
Start	127	End	569
GI	none	Score	176
Exons	127..417, 151..348, 432..569, 433..564		

Seq. No.	45041	Seq. ID	OJ000301_04.0403.C19
Gene No.	95149	Strand	+
Start	3967	End	4129
Name	OJ000301_04.0403.C19.o1.ts	Method	TBLASTX:Soybean
Start	843	End	1412
GI	5509260	Score	651
Exons	843..1412, 883..1410		
GI Descrip.	-		

Seq. No.	45041	Seq. ID	OJ000301_04.0403.C19
Gene No.	95149	Strand	+
Start	3967	End	4129
Name	OJ000301_04.0403.C19.o1.tw	Method	TBLASTX:Wheat
Start	928	End	1395
GI	none	Score	82
Exons	928..1017, 934..1011, 1051..1395, 1068..1196, 1227..1394		

Seq. No.	45041	Seq. ID	OJ000301_04.0403.C19
Gene No.	95149	Strand	+
Start	3967	End	4129
Name	OJ000301_04.0403.C19.o2.tc	Method	TBLASTX:Cress
Start	1027	End	1293
GI	none	Score	244
Exons	1027..1293, 1032..1292		

Seq. No.	45041	Seq. ID	OJ000301_04.0403.C19
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Gene No.	95149	Strand	+
Start	3967	End	4129
Name	OJ000301_04.0403.C19.o2.tm	Method	TBLASTX:Maize
Start	1074	End	1521
GI	none	Score	526
Exons	1074..1511, 1075..1521, 1216..1512		

Seq. No.	45041	Seq. ID	OJ000301_04.0403.C19
Gene No.	95149	Strand	+
Start	3967	End	4129
Name	OJ000301_04.0403.C19.o4.ts	Method	TBLASTX:Soybean
Start	1554	End	1782
GI	none	Score	192
Exons	1554..1721, 1558..1782		

Seq. No.	45041	Seq. ID	OJ000301_04.0403.C19
Gene No.	95149	Strand	+
Start	3967	End	4129
Name	OJ000301_04.0403.C19.o2.tw	Method	TBLASTX:Wheat
Start	1582	End	1998
GI	none	Score	103
Exons	1582..1734, 1762..1998, 1773..1997		

Seq. No.	45041	Seq. ID	OJ000301_04.0403.C19
Gene No.	95149	Strand	+
Start	3967	End	4129
Name	OJ000301_04.0403.C19.o1.tc	Method	TBLASTX:Cress
Start	1762	End	2421
GI	none	Score	119
Exons	1762..1935, 1774..1944, 2056..2190, 2208..2327, 2209..2421		

Seq. No.	45041	Seq. ID	OJ000301_04.0403.C19
Gene No.	95149	Strand	+
Start	3967	End	4129
Name	OJ000301_04.0403.C19.o1.tm	Method	TBLASTX:Maize
Start	1765	End	2421
GI	none	Score	686
Exons	1765..2421, 1773..2420		

Seq. No.	45041	Seq. ID	OJ000301_04.0403.C19
Gene No.	95149	Strand	+
Start	3967	End	4129
Name	OJ000301_04.0403.C19.o2.ts	Method	TBLASTX:Soybean
Start	1783	End	2463
GI	none	Score	249
Exons	1783..2172, 1788..1943, 1977..2087, 2200..2463, 2205..2366		

Seq. No.	45041	Seq. ID	OJ000301_04.0403.C19
Gene No.	95149	Strand	+
Start	3967	End	4129
Name	OJ000301_04.0403.C19.o2.gs	Method	GENSCAN
Start	3967	End	4129
GI	none	Score	.6
Exons	3967..4129		

Seq. No.	45042	Seq. ID	OJ000301_04.0403.C20
Gene No.	95150	Strand	+

Start	1	End	1328
Name	OJ000301_04.0403.C20.o1.np	Method	AAT/NAP
Start	1	End	1328
GI	6069646	Score	376
Exons	1..96, 379..1328		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	45042	Seq. ID	OJ000301_04.0403.C20
Gene No.	95150	Strand	+
Start	1	End	1328
Name	OJ000301_04.0403.C20.o1.ts	Method	TBLASTX:Soybean
Start	39	End	479
GI	none	Score	142
Exons	39..257, 342..479		

Seq. No.	45042	Seq. ID	OJ000301_04.0403.C20
Gene No.	95150	Strand	+
Start	1	End	1328
Name	OJ000301_04.0403.C20.o1.tw	Method	TBLASTX:Wheat
Start	60	End	392
GI	none	Score	138
Exons	60..254, 267..392		

Seq. No.	45042	Seq. ID	OJ000301_04.0403.C20
Gene No.	95150	Strand	+
Start	1	End	1328
Name	OJ000301_04.0403.C20.o1.tm	Method	TBLASTX:Maize
Start	75	End	467
GI	none	Score	305
Exons	75..467, 77..187, 254..388		

Seq. No.	45042	Seq. ID	OJ000301_04.0403.C20
Gene No.	95150	Strand	+
Start	1	End	1328
Name	OJ000301_04.0403.C20.o2.tm	Method	TBLASTX:Maize
Start	683	End	1228
GI	none	Score	288
Exons	683..1216, 895..1047, 1118..1228		

Seq. No.	45042	Seq. ID	OJ000301_04.0403.C20
Gene No.	95150	Strand	+
Start	1	End	1328
Name	OJ000301_04.0403.C20.o2.tw	Method	TBLASTX:Wheat
Start	844	End	1048
GI	none	Score	173
Exons	844..999, 845..1048		

Seq. No.	45043	Seq. ID	OJ000301_04.0403.C21
Gene No.	95151	Strand	+
Start	109	End	2657
Name	OJ000301_04.0403.C21.o1.gs	Method	GENSCAN
Start	109	End	2657
GI	none	Score	.49

Exons 109..196, 621..768, 805..821, 932..1157, 1720..1839, 2435..2657

Seq. No. 45043 Seq. ID OJ000301\_04.0403.C21  
Gene No. 95152 Strand +  
Start 3618 End 6546  
Name OJ000301\_04.0403.C21.o1.gp Method AAT/GAP  
Start 3353 End 6546  
GI 2516\_1.R1084 Score 2447  
Exons 3353..3857, 5023..5138, 5272..5360, 5444..5557, 5642..5729,  
5813..5898, 5990..6092, 6185..6282, 6393..6546  
GI Descrip. '4531444/gb|AAD22129.1|AC006224\_11 1.0e-160 (AC006224) putative  
protein kinase [Arabidopsis thaliana]'

Seq. No. 45043 Seq. ID OJ000301\_04.0403.C21  
Gene No. 95152 Strand +  
Start 3618 End 6546  
Name OJ000301\_04.0403.C21.o2.gs Method GENSCAN  
Start 3618 End 6282  
GI none Score .8  
Exons 3618..3702, 3708..3857, 5023..5138, 5272..5360, 5642..5729,  
5813..5898, 5990..6092, 6185..6282

Seq. No. 45043 Seq. ID OJ000301\_04.0403.C21  
Gene No. 95152 Strand +  
Start 3618 End 6546  
Name OJ000301\_04.0403.C21.o1.tm Method TBLASTX:Maize  
Start 3621 End 6543  
GI none Score 68  
Exons 3621..3665, 5021..5158, 5112..5159, 5269..5364, 5271..5363,  
5293..5364, 5444..5557, 5445..5555, 5623..5730, 5633..5728,  
5646..5735, 5801..5899, 5811..5900, 5812..5898, 5933..5953,  
5988..6092, 5990..6094, 6041..6094, 6182..6283, 6182..6283,  
6382..6543, 6390..6542

Seq. No. 45043 Seq. ID OJ000301\_04.0403.C21  
Gene No. 95152 Strand +  
Start 3618 End 6546  
Name OJ000301\_04.0403.C21.o1.tw Method TBLASTX:Wheat  
Start 3714 End 5846  
GI none Score 55  
Exons 3714..3857, 3820..3858, 3824..3859, 3824..3862, 5020..5100,  
5020..5139, 5021..5101, 5021..5140, 5269..5364, 5270..5362,  
5271..5399, 5271..5363, 5443..5556, 5443..5559, 5611..5730,  
5633..5728, 5646..5735, 5811..5846, 5811..5846

Seq. No. 45043 Seq. ID OJ000301\_04.0403.C21  
Gene No. 95152 Strand +  
Start 3618 End 6546  
Name OJ000301\_04.0403.C21.o1.np Method AAT/NAP  
Start 4980 End 6546  
GI 6686400 Score 800  
Exons 4980..5138, 5272..5360, 5444..5557, 5642..5729, 5813..5898,  
5990..6092, 6185..6282, 6393..6546  
GI Descrip. (AC007234) F1E22.18 [Arabidopsis thaliana]

Seq. No. 45043 Seq. ID OJ000301\_04.0403.C21  
Gene No. 95152 Strand +

Start	3618	End	6546
Name	OJ000301_04.0403.C21.o1.ts	Method	TBLASTX:Soybean
Start	5048	End	6546
GI	none	Score	70
Exons	5048..5140, 5255..5362, 5269..5364, 5271..5363, 5284..5382, 5442..5552, 5443..5556, 5444..5557, 5633..5728, 5649..5729, 5801..5899, 5812..5895, 5987..6094, 5988..6092, 6008..6094, 6181..6282, 6182..6283, 6183..6281, 6184..6282, 6382..6546, 6415..6543, 6417..6545		

Seq. No.	45043	Seq. ID	OJ000301_04.0403.C21
Gene No.	95152	Strand	+
Start	3618	End	6546
Name	OJ000301_04.0403.C21.o2.tc	Method	TBLASTX:Cress
Start	5051	End	6543
GI	none	Score	71
Exons	5051..5149, 6215..6283, 6231..6281, 6390..6542, 6390..6542, 6391..6543		

Seq. No.	45043	Seq. ID	OJ000301_04.0403.C21
Gene No.	95152	Strand	+
Start	3618	End	6546
Name	OJ000301_04.0403.C21.o1.tc	Method	TBLASTX:Cress
Start	5269	End	6214
GI	none	Score	163
Exons	5269..5364, 5271..5363, 5444..5566, 5445..5567, 5649..5729, 5801..5884, 5811..5864, 5987..6094, 5988..6092, 6010..6093, 6011..6094, 6182..6214		

Seq. No.	45043	Seq. ID	OJ000301_04.0403.C21
Gene No.	95152	Strand	+
Start	3618	End	6546
Name	OJ000301_04.0403.C21.o2.tw	Method	TBLASTX:Wheat
Start	6011	End	6471
GI	none	Score	157
Exons	6011..6094, 6012..6092, 6182..6283, 6182..6283, 6183..6287, 6382..6471, 6391..6471		

Seq. No.	45044	Seq. ID	OJ000301_04.0403.C22
Gene No.	95153	Strand	+
Start	1	End	996
Name	OJ000301_04.0403.C22.o1.gp	Method	AAT/GAP
Start	1	End	684
GI	2516_1.R1084	Score	1013
Exons	1..24, 123..684		
GI Descrip.	'4531444/gb AAD22129.1 AC006224_11 1.0e-160 (AC006224) putative protein kinase [Arabidopsis thaliana]'		

Seq. No.	45044	Seq. ID	OJ000301_04.0403.C22
Gene No.	95153	Strand	+
Start	1	End	996
Name	OJ000301_04.0403.C22.o1.np	Method	AAT/NAP
Start	1	End	439
GI	4531444	Score	256
Exons	1..24, 123..439		
GI Descrip.	(AC006224) putative amine oxidase [Arabidopsis thaliana]		

Seq. No.	45044	Seq. ID	OJ000301_04.0403.C22
Gene No.	95153	Strand	+
Start	1	End	996
Name	OJ000301_04.0403.C22.o1.gs	Method	GENSCAN
Start	50	End	996
GI	none	Score	.44
Exons	50..230, 862..996		

Seq. No.	45044	Seq. ID	OJ000301_04.0403.C22
Gene No.	95154	Strand	+
Start	1884	End	5011
Name	OJ000301_04.0403.C22.o2.gp	Method	AAT/GAP
Start	1721	End	2903
GI	29451_1.R1084	Score	1380
Exons	1721..2178, 2529..2733, 2822..2903		
GI Descrip.	'4531444/gb AAD22129.1 AC006224_11 6.0e-12 (AC006224) putative protein kinase [Arabidopsis thaliana]'		

Seq. No.	45044	Seq. ID	OJ000301_04.0403.C22
Gene No.	95154	Strand	+
Start	1884	End	5011
Name	OJ000301_04.0403.C22.o2.np	Method	AAT/NAP
Start	1746	End	4796
GI	4531444	Score	1323
Exons	1746..1804, 2548..2733, 2822..2935, 3031..3118, 3237..3322, 3428..3530, 3678..3775, 3939..4368, 4488..4796		
GI Descrip.	(AC006224) putative amine oxidase [Arabidopsis thaliana]		

Seq. No.	45044	Seq. ID	OJ000301_04.0403.C22
Gene No.	95154	Strand	+
Start	1884	End	5011
Name	OJ000301_04.0403.C22.o2.gs	Method	GENSCAN
Start	1884	End	4799
GI	none	Score	.89
Exons	1884..1974, 2529..2733, 2822..2935, 3031..3118, 3678..3775, 3939..4368, 4488..4799		

Seq. No.	45044	Seq. ID	OJ000301_04.0403.C22
Gene No.	95154	Strand	+
Start	1884	End	5011
Name	OJ000301_04.0403.C22.o3.gp	Method	AAT/GAP
Start	4499	End	5011
GI	19075_1.R1084	Score	947
Exons	4499..5011		
GI Descrip.	'4531444/gb AAD22129.1 AC006224_11 2.0e-09 (AC006224) putative protein kinase [Arabidopsis thaliana]'		

Seq. No.	45044	Seq. ID	OJ000301_04.0403.C22
Gene No.	95155	Strand	+
Start	6041	End	8130
Name	OJ000301_04.0403.C22.o3.np	Method	AAT/NAP
Start	6020	End	8130
GI	6063552	Score	871
Exons	6020..6397, 6743..6926, 7367..7639, 7990..8130		
GI Descrip.	(AP000615) ESTs AU065232(E60855), C23624(S1554), AU078241(E60855) correspond to a region of the predicted gene.; similar to putative adenylate kinase. (AC005896) [Oryza sativa]		



Seq. No.	45044	Seq. ID	OJ000301_04.0403.C22
Gene No.	95155	Strand	+
Start	6041	End	8130
Name	OJ000301_04.0403.C22.o3.gs	Method	GENSCAN
Start	6041	End	8130
GI	none	Score	.75
Exons	6041..6343, 6786..6926, 7367..7639, 7990..8130		

Seq. No.	45044	Seq. ID	OJ000301_04.0403.C22
Gene No.	95155	Strand	+
Start	6041	End	8130
Name	OJ000301_04.0403.C22.o4.gp	Method	AAT/GAP
Start	6224	End	6934
GI	2431503	Score	474
Exons	6224..6343, 6786..6934		
GI Descrip.	4056480 4.0e-29 (AC005896) putative adenylate kinase [Arabidopsis thaliana]		

Seq. No.	45044	Seq. ID	OJ000301_04.0403.C22
Gene No.	95156	Strand	-
Start	9336	End	11680
Name	OJ000301_04.0403.C22.o1.tm	Method	TBLASTX:Maize
Start	1	End	4816
GI	none	Score	36
Exons	1..24, 126..284, 128..283, 286..375, 287..376, 394..459, 1847..1870, 1874..1978, 1875..1958, 1946..1978, 2527..2733, 2528..2734, 2528..2737, 2822..2935, 2823..2933, 3028..3117, 3029..3118, 3033..3119, 3234..3323, 3235..3327, 3244..3318, 3426..3530, 3433..3531, 3433..3531, 3675..3815, 3675..3776, 3936..4367, 3937..4368, 4002..4367, 4475..4552, 4487..4798, 4488..4799, 4488..4799, 4697..4816		

Seq. No.	45044	Seq. ID	OJ000301_04.0403.C22
Gene No.	95156	Strand	-
Start	9336	End	11680
Name	OJ000301_04.0403.C22.o1.ts	Method	TBLASTX:Soybean
Start	122	End	4721
GI	none	Score	216
Exons	122..283, 123..284, 286..363, 287..385, 2555..2737, 2568..2750, 2618..2734, 2632..2754, 2821..2925, 2822..2935, 2823..2933, 3234..3323, 3426..3530, 3675..3776, 3675..3776, 3937..4371, 4005..4280, 4009..4347, 4491..4721, 4493..4687		

Seq. No.	45044	Seq. ID	OJ000301_04.0403.C22
Gene No.	95156	Strand	-
Start	9336	End	11680
Name	OJ000301_04.0403.C22.o3.tc	Method	TBLASTX:Cress
Start	122	End	4757
GI	none	Score	194
Exons	122..259, 123..284, 287..373, 289..372, 4285..4371, 4463..4738, 4491..4757		

Seq. No.	45044	Seq. ID	OJ000301_04.0403.C22
Gene No.	95156	Strand	-
Start	9336	End	11680
Name	OJ000301_04.0403.C22.o1.tw	Method	TBLASTX:Wheat

Start	2527	End	3269
GI	none	Score	197
Exons	2527..2580, 2528..2734, 2546..2725, 2632..2754, 2821..2928, 2823..2933, 2828..2935, 3028..3117, 3029..3118, 3234..3269		

Seq. No.	45044	Seq. ID	OJ000301_04.0403.C22
Gene No.	95156	Strand	-
Start	9336	End	11680
Name	OJ000301_04.0403.C22.o1.tc	Method	TBLASTX:Cress
Start	2618	End	4284
GI	none	Score	169
Exons	2618..2734, 2632..2733, 2822..2899, 2823..2900, 2895..2927, 2897..2920, 3029..3079, 3080..3124, 3243..3263, 3426..3530, 3675..3776, 3692..3766, 3901..4278, 3936..4133, 3937..4284, 4005..4280		

Seq. No.	45044	Seq. ID	OJ000301_04.0403.C22
Gene No.	95156	Strand	-
Start	9336	End	11680
Name	OJ000301_04.0403.C22.o2.ts	Method	TBLASTX:Soybean
Start	6193	End	8127
GI	none	Score	77
Exons	6193..6291, 6195..6260, 6203..6292, 6783..6926, 6785..6931, 7365..7607, 7366..7581, 7367..7639, 7370..7648, 7993..8127, 7995..8126		

Seq. No.	45044	Seq. ID	OJ000301_04.0403.C22
Gene No.	95156	Strand	-
Start	9336	End	11680
Name	OJ000301_04.0403.C22.o2.tc	Method	TBLASTX:Cress
Start	6206	End	8108
GI	none	Score	195
Exons	6206..6349, 6208..6336, 6771..6827, 6781..6825, 6825..6926, 6831..6926, 7355..7633, 7365..7628, 7367..7639, 7993..8100, 7995..8108		

Seq. No.	45044	Seq. ID	OJ000301_04.0403.C22
Gene No.	95156	Strand	-
Start	9336	End	11680
Name	OJ000301_04.0403.C22.o2.tm	Method	TBLASTX:Maize
Start	6296	End	8401
GI	none	Score	70
Exons	6296..6346, 6296..6343, 6756..6926, 6783..6926, 6784..6930, 6793..6927, 7365..7637, 7367..7639, 7367..7639, 7964..8086, 7988..8083, 7992..8099, 7992..8126, 7993..8127, 8098..8136, 8098..8139, 8236..8283, 8247..8282, 8297..8401		

Seq. No.	45044	Seq. ID	OJ000301_04.0403.C22
Gene No.	95156	Strand	-
Start	9336	End	11680
Name	OJ000301_04.0403.C22.o4.gs	Method	GENSCAN
Start	9336	End	11680
GI	none	Score	.5
Exons	9336..9527, 10563..10593, 11634..11680		

Seq. No.	45045	Seq. ID	OJ000301_04.0403.C23
Gene No.	95157	Strand	+

Start	59	End	1572
Name	OJ000301_04.0403.C23.o1.gs	Method	GENSCAN
Start	59	End	1572
GI	none	Score	.89
Exons	59..371, 1235..1572		

Seq. No.	45046	Seq. ID	OJ000301_04.0403.C24
Gene No.	95158	Strand	-
Start	440	End	889
Name	OJ000301_04.0403.C24.o1.gs	Method	GENSCAN
Start	440	End	889
GI	none	Score	.79
Exons	440..559, 620..748, 845..889		

Seq. No.	45047	Seq. ID	OJ000301_04.0403.C25
Gene No.	95159	Strand	-
Start	1	End	734
Name	OJ000301_04.0403.C25.o1.gp	Method	AAT/GAP
Start	1	End	734
GI	36294_1.R1084	Score	354
Exons	1..43, 473..734		
GI Descrip.	'4102600/gb AAD01513.1  4.0e-42 (AF013467) ARF6 [Arabidopsis thaliana]'		

Seq. No.	45047	Seq. ID	OJ000301_04.0403.C25
Gene No.	95159	Strand	-
Start	1	End	734
Name	OJ000301_04.0403.C25.o1.np	Method	AAT/NAP
Start	81	End	734
GI	4104931	Score	239
Exons	81..196, 477..734		
GI Descrip.	(AF042196) auxin response factor 8 [Arabidopsis thaliana]		

Seq. No.	45047	Seq. ID	OJ000301_04.0403.C25
Gene No.	95159	Strand	-
Start	1	End	734
Name	OJ000301_04.0403.C25.o1.tm	Method	TBLASTX:Maize
Start	472	End	686
GI	none	Score	277
Exons	472..669, 475..669, 476..670, 479..673, 522..686		

Seq. No.	45047	Seq. ID	OJ000301_04.0403.C25
Gene No.	95159	Strand	-
Start	1	End	734
Name	OJ000301_04.0403.C25.o1.gs	Method	GENSCAN
Start	473	End	667
GI	none	Score	.79
Exons	473..667		

Seq. No.	45047	Seq. ID	OJ000301_04.0403.C25
Gene No.	95159	Strand	-
Start	1	End	734
Name	OJ000301_04.0403.C25.o1.tc	Method	TBLASTX:Cress
Start	477	End	673
GI	none	Score	145
Exons	477..668, 479..673, 522..668		

Seq. No.	45047	Seq. ID	OJ000301_04.0403.C25
Gene No.	95159	Strand	-
Start	1	End	734
Name	OJ000301_04.0403.C25.o1.ts	Method	TBLASTX:Soybean
Start	477	End	673
GI	none	Score	174
Exons	477..668, 479..670, 479..673		

Seq. No.	45048	Seq. ID	OJ000301_04.0403.C28
Gene No.	95160	Strand	-
Start	205	End	976
Name	OJ000301_04.0403.C28.o1.gs	Method	GENSCAN
Start	205	End	976
GI	none	Score	.63
Exons	205..319, 549..811, 913..976		

Seq. No.	45049	Seq. ID	OJ000301_04.0403.C31
Gene No.	95161	Strand	-
Start	133	End	736
Name	OJ000301_04.0403.C31.o1.np	Method	AAT/NAP
Start	133	End	736
GI	7228442	Score	126
Exons	133..317, 470..736		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	45049	Seq. ID	OJ000301_04.0403.C31
Gene No.	95161	Strand	-
Start	133	End	736
Name	OJ000301_04.0403.C31.o2.np	Method	AAT/NAP
Start	436	End	736
GI	5441880	Score	389
Exons	436..736		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	45050	Seq. ID	OJ000301_04.0403.C36
Gene No.	95162	Strand	-
Start	15	End	628
Name	OJ000301_04.0403.C36.o1.gs	Method	GENSCAN
Start	15	End	628
GI	none	Score	.52
Exons	15..230, 257..384, 624..628		

Seq. No.	45051	Seq. ID	OJ000301_04.0403.C40
Gene No.	95163	Strand	+
Start	122	End	1012
Name	OJ000301_04.0403.C40.o1.gs	Method	GENSCAN
Start	122	End	1012
GI	none	Score	.46
Exons	122..301, 806..1012		

Seq. No.	45051	Seq. ID	OJ000301_04.0403.C40
Gene No.	95164	Strand	+
Start	921	End	1006

Name	OJ000301_04.0403.C40.o1.np	Method	AAT/NAP
Start	921	End	1006
GI	7432659	Score	85
Exons	921..1006		
GI Descrip.	hypothetical protein F23F1.9 - Arabidopsis thaliana gi 3420052 gb AAC31853.1  (AC004680) putative NADH dehydrogenase (ubiquinone oxidoreductase) [Arabidopsis thaliana]		

Seq. No.	45051	Seq. ID	OJ000301_04.0403.C40
Gene No.	95165	Strand	-
Start	2238	End	2681
Name	OJ000301_04.0403.C40.o2.gs	Method	GENSCAN
Start	2238	End	2605
GI	none	Score	.7
Exons	2238..2605		

Seq. No.	45051	Seq. ID	OJ000301_04.0403.C40
Gene No.	95165	Strand	-
Start	2238	End	2681
Name	OJ000301_04.0403.C40.o1.ts	Method	TBLASTX:Soybean
Start	2247	End	2486
GI	none	Score	76
Exons	2247..2432, 2412..2486		

Seq. No.	45051	Seq. ID	OJ000301_04.0403.C40
Gene No.	95165	Strand	-
Start	2238	End	2681
Name	OJ000301_04.0403.C40.o2.np	Method	AAT/NAP
Start	2312	End	2681
GI	7297247	Score	90
Exons	2312..2681		
GI Descrip.	(AE003617) CG5181 gene product [Drosophila melanogaster]		

Seq. No.	45052	Seq. ID	OJ000301_04.0403.C43
Gene No.	95166	Strand	+
Start	1	End	1164
Name	OJ000301_04.0403.C43.o1.np	Method	AAT/NAP
Start	1	End	1164
GI	7485366	Score	422
Exons	1..61, 175..323, 425..523, 1001..1164		
GI Descrip.	hypothetical protein F10N7.180 - Arabidopsis thaliana gi 2827635 emb CAA16588.1  (AL021636) predicted protein [Arabidopsis thaliana] gi 7270105 emb CAB79919.1  (AL161580) predicted protein [Arabidopsis thaliana]		

Seq. No.	45052	Seq. ID	OJ000301_04.0403.C43
Gene No.	95166	Strand	+
Start	1	End	1164
Name	OJ000301_04.0403.C43.o1.gs	Method	GENSCAN
Start	59	End	523
GI	none	Score	.51
Exons	59..283, 427..523		

Seq. No.	45052	Seq. ID	OJ000301_04.0403.C43
Gene No.	95166	Strand	+
Start	1	End	1164
Name	OJ000301_04.0403.C43.o1.tm	Method	TBLASTX:Maize

Start	73	End	1164
GI	none	Score	79
Exons	73..123, 74..127, 74..127, 75..134, 126..155, 127..162, 128..157, 160..276, 161..283, 162..284, 173..301, 399..524, 418..531, 418..522, 428..523, 440..541, 985..1104, 1000..1065, 1001..1096, 1064..1162, 1064..1162, 1065..1163, 1066..1164		
Seq. No.	45052	Seq. ID	OJ000301_04.0403.C43
Gene No.	95166	Strand	+
Start	1	End	1164
Name	OJ000301_04.0403.C43.o1.ts	Method	TBLASTX:Soybean
Start	451	End	1118
GI	none	Score	103
Exons	451..522, 452..541, 452..523, 985..1062, 1001..1063, 1062..1118, 1066..1116		
Seq. No.	45053	Seq. ID	OJ000301_01.0407.C1
Gene No.	95167	Strand	-
Start	298	End	1124
Name	OJ000301_01.0407.C1.o1.gp	Method	AAT/GAP
Start	298	End	708
GI	29546_1.R1084	Score	340
Exons	298..370, 454..528, 626..708		
GI Descrip.	'3894383 3.0e-25 (AF053993) disease resistance protein [Lycopersicon esculentum]'		
Seq. No.	45053	Seq. ID	OJ000301_01.0407.C1
Gene No.	95167	Strand	-
Start	298	End	1124
Name	OJ000301_01.0407.C1.o2.gp	Method	AAT/GAP
Start	298	End	854
GI	29546_1.R1084	Score	432
Exons	298..370, 454..528, 626..696, 795..854		
GI Descrip.	'3894383 3.0e-25 (AF053993) disease resistance protein [Lycopersicon esculentum]'		
Seq. No.	45053	Seq. ID	OJ000301_01.0407.C1
Gene No.	95167	Strand	-
Start	298	End	1124
Name	OJ000301_01.0407.C1.o1.np	Method	AAT/NAP
Start	302	End	1124
GI	7329668	Score	269
Exons	302..370, 454..528, 626..697, 795..866, 952..1124		
GI Descrip.	(AL162351) putative protein [Arabidopsis thaliana]		
Seq. No.	45054	Seq. ID	OJ000301_01.0407.C2
Gene No.	95168	Strand	+
Start	1	End	790
Name	OJ000301_01.0407.C2.o1.np	Method	AAT/NAP
Start	1	End	790
GI	7430708	Score	112
Exons	1..32, 359..790		
GI Descrip.	cytochrome P450 homolog F14M4.22 - Arabidopsis thaliana gi 3522946 gb AAC34228.1  (AC004411) putative cytochrome P450 [Arabidopsis thaliana]		
Seq. No.	45054	Seq. ID	OJ000301_01.0407.C2

Gene No. 95168  
 Start 1  
 Name OJ000301\_01.0407.C2.o1.gs  
 Start 318  
 GI none  
 Exons 318..753

Strand +  
 End 790  
 Method GENSCAN  
 End 753  
 Score .83

Seq. No. 45054  
 Gene No. 95168  
 Start 1  
 Name OJ000301\_01.0407.C2.o1.tm  
 Start 369  
 GI none  
 Exons 369..659, 413..655

Seq. ID OJ000301\_01.0407.C2  
 Strand +  
 End 790  
 Method TBLASTX:Maize  
 End 659  
 Score 268

Seq. No. 45055  
 Gene No. 95169  
 Start 4569  
 Name OJ000301\_01.0407.C4.o2.gs  
 Start 4569  
 GI none  
 Exons 4569..5759

Seq. ID OJ000301\_01.0407.C4  
 Strand +  
 End 5759  
 Method GENSCAN  
 End 5759  
 Score .66

Seq. No. 45055  
 Gene No. 95170  
 Start 1  
 Name OJ000301\_01.0407.C4.o1.np  
 Start 1  
 GI 551288  
 Exons 1..209, 360..563, 690..840, 1449..1576, 2058..2219  
 GI Descrip. (Z33611) phosphoglycerate mutase [Zea mays]

Seq. ID OJ000301\_01.0407.C4  
 Strand -  
 End 3117  
 Method AAT/NAP  
 End 2219  
 Score 1208

Seq. No. 45055  
 Gene No. 95170  
 Start 1  
 Name OJ000301\_01.0407.C4.o1.gs  
 Start 26  
 GI none  
 Exons 26..209, 360..563, 690..840, 1449..1576, 2058..2219

Seq. ID OJ000301\_01.0407.C4  
 Strand -  
 End 3117  
 Method GENSCAN  
 End 2219  
 Score .95

Seq. No. 45055  
 Gene No. 95170  
 Start 1  
 Name OJ000301\_01.0407.C4.o1.gp  
 Start 1472  
 GI 428693  
 Exons 1472..1576, 2058..2231, 3060..3117  
 GI Descrip. 551288/emb|CAA83914| 1.0e-45 (Z33611) phosphoglycerate mutase [Zea mays]

Seq. ID OJ000301\_01.0407.C4  
 Strand -  
 End 3117  
 Method AAT/GAP  
 End 3117  
 Score 634

Seq. No. 45055  
 Gene No. 95171  
 Start 6614  
 Name OJ000301\_01.0407.C4.o1.tc  
 Start 1  
 GI none  
 Exons 1..210, 3..212, 3..212, 359..529, 360..524, 360..533, 361..534

Seq. ID OJ000301\_01.0407.C4  
 Strand -  
 End 10292  
 Method TBLASTX:Cress  
 End 534  
 Score 243

Seq. No.	45055	Seq. ID	OJ000301_01.0407.C4
Gene No.	95171	Strand	-
Start	6614	End	10292
Name	OJ000301_01.0407.C4.o2.tw	Method	TBLASTX:Wheat
Start	1	End	205
GI	none	Score	235
Exons	1..204, 1..180, 3..203, 50..205		

Seq. No.	45055	Seq. ID	OJ000301_01.0407.C4
Gene No.	95171	Strand	-
Start	6614	End	10292
Name	OJ000301_01.0407.C4.o1.ts	Method	TBLASTX:Soybean
Start	1	End	2220
GI	none	Score	230
Exons	1..210, 3..212, 3..212, 360..551, 362..511, 367..564, 687..854, 690..839, 691..840, 1440..1577, 1448..1579, 1453..1578, 2051..2218, 2058..2219, 2058..2219, 2059..2220		

Seq. No.	45055	Seq. ID	OJ000301_01.0407.C4
Gene No.	95171	Strand	-
Start	6614	End	10292
Name	OJ000301_01.0407.C4.o2.tm	Method	TBLASTX:Maize
Start	1	End	2202
GI	none	Score	250
Exons	1..210, 3..212, 3..212, 360..551, 361..564, 362..514, 367..564, 687..854, 691..840, 696..854, 1440..1577, 1448..1576, 1451..1579, 2058..2201, 2059..2202, 2061..2201		

Seq. No.	45055	Seq. ID	OJ000301_01.0407.C4
Gene No.	95171	Strand	-
Start	6614	End	10292
Name	OJ000301_01.0407.C4.o2.tc	Method	TBLASTX:Cress
Start	687	End	2222
GI	none	Score	134
Exons	687..839, 700..840, 1440..1577, 1448..1576, 2061..2213, 2070..2222		

Seq. No.	45055	Seq. ID	OJ000301_01.0407.C4
Gene No.	95171	Strand	-
Start	6614	End	10292
Name	OJ000301_01.0407.C4.o2.np	Method	AAT/NAP
Start	6222	End	10292
GI	6069646	Score	898
Exons	6222..7207, 7490..8293, 10038..10292		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	45055	Seq. ID	OJ000301_01.0407.C4
Gene No.	95171	Strand	-
Start	6614	End	10292
Name	OJ000301_01.0407.C4.o5.tw	Method	TBLASTX:Wheat
Start	6240	End	6641
GI	none	Score	117



Exons 6240..6485, 6492..6641

Seq. No.	45055	Seq. ID	OJ000301_01.0407.C4
Gene No.	95171	Strand	-
Start	6614	End	10292
Name	OJ000301_01.0407.C4.o4.tm	Method	TBLASTX:Maize
Start	6429	End	6700
GI	none	Score	74
Exons	6429..6641, 6499..6636, 6641..6700, 6644..6697		

Seq. No.	45055	Seq. ID	OJ000301_01.0407.C4
Gene No.	95171	Strand	-
Start	6614	End	10292
Name	OJ000301_01.0407.C4.o3.gs	Method	GENSCAN
Start	6614	End	9736
GI	none	Score	.72
Exons	6614..7815, 7854..8855, 9566..9736		

Seq. No.	45055	Seq. ID	OJ000301_01.0407.C4
Gene No.	95171	Strand	-
Start	6614	End	10292
Name	OJ000301_01.0407.C4.o3.tw	Method	TBLASTX:Wheat
Start	6647	End	7030
GI	none	Score	97
Exons	6647..6802, 6899..7030		

Seq. No.	45055	Seq. ID	OJ000301_01.0407.C4
Gene No.	95171	Strand	-
Start	6614	End	10292
Name	OJ000301_01.0407.C4.o6.tm	Method	TBLASTX:Maize
Start	7035	End	7265
GI	none	Score	102
Exons	7035..7265, 7040..7264		

Seq. No.	45055	Seq. ID	OJ000301_01.0407.C4
Gene No.	95171	Strand	-
Start	6614	End	10292
Name	OJ000301_01.0407.C4.o1.tw	Method	TBLASTX:Wheat
Start	7196	End	7636
GI	none	Score	47
Exons	7196..7354, 7197..7289, 7340..7636, 7371..7634		

Seq. No.	45055	Seq. ID	OJ000301_01.0407.C4
Gene No.	95171	Strand	-
Start	6614	End	10292
Name	OJ000301_01.0407.C4.o3.tm	Method	TBLASTX:Maize
Start	7271	End	7870
GI	none	Score	85
Exons	7271..7870, 7689..7856		

Seq. No.	45055	Seq. ID	OJ000301_01.0407.C4
Gene No.	95171	Strand	-
Start	6614	End	10292
Name	OJ000301_01.0407.C4.o1.tm	Method	TBLASTX:Maize
Start	7891	End	8316
GI	none	Score	189
Exons	7891..8316, 7892..8290		

Seq. No.	45055	Seq. ID	OJ000301_01.0407.C4
Gene No.	95171	Strand	-
Start	6614	End	10292
Name	OJ000301_01.0407.C4.o4.tw	Method	TBLASTX:Wheat
Start	8062	End	8397
GI	none	Score	100
Exons	8062..8238, 8257..8397		

Seq. No.	45055	Seq. ID	OJ000301_01.0407.C4
Gene No.	95171	Strand	-
Start	6614	End	10292
Name	OJ000301_01.0407.C4.o5.tm	Method	TBLASTX:Maize
Start	8468	End	8841
GI	none	Score	63
Exons	8468..8614, 8473..8841, 8669..8755		

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95172	Strand	+
Start	5348	End	5754
Name	OJ000301_01.0407.C5.o2.gp	Method	AAT/GAP
Start	5348	End	5754
GI	none	Score	750
Exons	5348..5754		

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95173	Strand	+
Start	21411	End	25129
Name	OJ000301_01.0407.C5.o2.np	Method	AAT/NAP
Start	21411	End	23216
GI	6721512	Score	147
Exons	21411..21525, 21556..21686, 21728..21758, 23184..23216		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95173	Strand	+
Start	21411	End	25129
Name	OJ000301_01.0407.C5.o3.gs	Method	GENSCAN
Start	21899	End	23183
GI	none	Score	.88
Exons	21899..21917, 22248..22321, 22413..22447, 22582..22972, 23094..23183		

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95173	Strand	+
Start	21411	End	25129
Name	OJ000301_01.0407.C5.o5.gp	Method	AAT/GAP
Start	22715	End	25129
GI	21650_1.R1084	Score	1076
Exons	22715..22972, 23094..23183, 24861..25129		
GI Descrip.	'4689381/gb AF139466.1 AF139466 2.0e-10 Vigna radiata chlorophyll a/b binding protein CP29 (CipCp29) mRNA, complete cds, chloroplast gene for chloroplast product'		

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95173	Strand	+
Start	21411	End	25129

Name	OJ000301_01.0407.C5.o3.np	Method	AAT/NAP
Start	22865	End	23180
GI	6714362	Score	225
Exons	22865..22972, 23094..23180		
GI Descrip.	(AC012562) unknown protein [Arabidopsis thaliana]		

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95174	Strand	+
Start	30089	End	35992
Name	OJ000301_01.0407.C5.o7.gp	Method	AAT/GAP
Start	29910	End	30137
GI	LIB3475-004-P1-K2-E3	Score	409
Exons	29910..30137		
GI Descrip.	'551288/emb CAA83914  1.0e-45 (Z33611) phosphoglycerate mutase [Zea mays]'		

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95174	Strand	+
Start	30089	End	35992
Name	OJ000301_01.0407.C5.o5.gs	Method	GENSCAN
Start	30089	End	32721
GI	none	Score	.86
Exons	30089..30184, 30582..31651, 32525..32597, 32659..32721		

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95174	Strand	+
Start	30089	End	35992
Name	OJ000301_01.0407.C5.o5.np	Method	AAT/NAP
Start	30563	End	31640
GI	3157946	Score	516
Exons	30563..31640		
GI Descrip.	(AC002131) Similar to salt-inducible membrane protein gb U08285 from Nicotiana tabacum. EST gb F14010 comes from this gene. [Arabidopsis thaliana]		

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95174	Strand	+
Start	30089	End	35992
Name	OJ000301_01.0407.C5.o6.np	Method	AAT/NAP
Start	31590	End	35992
GI	6503302	Score	67
Exons	31590..31678, 33712..33809, 33938..33990, 35895..35992		
GI Descrip.	(AC011713) Is a member of PF 01544 CorA-like Mg2+ transporter protein family. ESTs gb Z48392 and gb Z48391 come from this gene. [Arabidopsis thaliana]		

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95175	Strand	-
Start	14	End	591
Name	OJ000301_01.0407.C5.o1.gp	Method	AAT/GAP
Start	14	End	591
GI	none	Score	1130
Exons	14..591		

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95176	Strand	-
Start	1930	End	3570

Name	OJ000301_01.0407.C5.o1.gs	Method	GENSCAN
Start	1930	End	3570
GI	none	Score	.74
Exons	1930..2136, 2970..3071, 3108..3209, 3481..3570		

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95177	Strand	-
Start	6377	End	6768
Name	OJ000301_01.0407.C5.o3.gp	Method	AAT/GAP
Start	6377	End	6768
GI	LIB3431-041-P1-N1-E4	Score	743
Exons	6377..6768		
GI Descrip.	'576771/gb U16256 OSU16256 0.0e+00 Oryza sativa cone SRI sucrose-regulated mRNA, 3''-end sequence'		

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95178	Strand	-
Start	9988	End	14005
Name	OJ000301_01.0407.C5.o4.gp	Method	AAT/GAP
Start	9988	End	10696
GI	LIB3434-017-P1-K1-C5	Score	701
Exons	9988..10311, 10628..10696		
GI Descrip.	'2982458/emb CAA18222.1  2.0e-15 (AL022223) putative protein [Arabidopsis thaliana]'		

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95178	Strand	-
Start	9988	End	14005
Name	OJ000301_01.0407.C5.o1.np	Method	AAT/NAP
Start	10166	End	14005
GI	3786011	Score	724
Exons	10166..10311, 10628..10771, 10918..11034, 11104..11214, 13155..13306, 13606..13694, 13917..14005		
GI Descrip.	(AC005499) putative RNA-binding protein [Arabidopsis thaliana]		

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95179	Strand	-
Start	25836	End	27971
Name	OJ000301_01.0407.C5.o4.gs	Method	GENSCAN
Start	25836	End	27971
GI	none	Score	.97
Exons	25836..26537, 26726..26878, 26981..27166, 27252..27341, 27518..27655, 27771..27971		

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95179	Strand	-
Start	25836	End	27971
Name	OJ000301_01.0407.C5.o4.np	Method	AAT/NAP
Start	26070	End	27971
GI	7340671	Score	331
Exons	26070..26227, 26393..26537, 26726..26878, 26981..27137, 27199..27341, 27521..27640, 27861..27971		
GI Descrip.	(AL162508) putative protein [Arabidopsis thaliana]		

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95180	Strand	-
Start	33411	End	37503

Name	OJ000301_01.0407.C5.o6.gs	Method	GENSCAN
Start	33411	End	37503
GI	none	Score	.67
Exons	33411..33496, 33728..33834, 33998..34076, 35382..35576, 35708..35760, 35985..36160, 36275..36514, 36611..36732, 36824..36948, 37072..37109, 37306..37503		

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95180	Strand	-
Start	33411	End	37503
Name	OJ000301_01.0407.C5.o7.np	Method	AAT/NAP
Start	35160	End	37503
GI	7340673	Score	1046
Exons	35160..35278, 35382..35570, 35708..35760, 35884..35984, 36086..36171, 36296..36514, 36611..36732, 36824..36948, 37072..37151, 37306..37503		

GI Descrip. (AL162508) putative protein [Arabidopsis thaliana]

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95181	Strand	-
Start	39835	End	41708
Name	OJ000301_01.0407.C5.o5.tm	Method	TBLASTX:Maize
Start	1927	End	2067
GI	none	Score	190
Exons	1927..2067, 1931..2047		

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95181	Strand	-
Start	39835	End	41708
Name	OJ000301_01.0407.C5.o5.ts	Method	TBLASTX:Soybean
Start	2017	End	2333
GI	none	Score	112
Exons	2017..2163, 2232..2333		

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95181	Strand	-
Start	39835	End	41708
Name	OJ000301_01.0407.C5.o6.tm	Method	TBLASTX:Maize
Start	9909	End	10305
GI	none	Score	84
Exons	9909..9971, 9913..9996, 9913..9966, 9914..9970, 10066..10104, 10068..10103, 10160..10213, 10165..10233, 10174..10233, 10210..10302, 10212..10304, 10212..10304, 10213..10305		

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95181	Strand	-
Start	39835	End	41708
Name	OJ000301_01.0407.C5.o1.ts	Method	TBLASTX:Soybean
Start	10626	End	13697
GI	none	Score	119
Exons	10626..10772, 10628..10774, 10909..11037, 10909..11043, 10916..11053, 11104..11187, 11105..11188, 13155..13340, 13606..13692, 13607..13693, 13608..13697		

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95181	Strand	-
Start	39835	End	41708

Name	OJ000301_01.0407.C5.o8.tm	Method	TBLASTX:Maize
Start	10626	End	10775
GI	none	Score	153
Exons	10626..10775, 10628..10774		
Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95181	Strand	-
Start	39835	End	41708
Name	OJ000301_01.0407.C5.o4.tm	Method	TBLASTX:Maize
Start	10927	End	11196
GI	none	Score	133
Exons	10927..11040, 10927..11043, 10928..11041, 10928..11044, 11093..11188, 11103..11165, 11104..11196, 11104..11190		
Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95181	Strand	-
Start	39835	End	41708
Name	OJ000301_01.0407.C5.o3.ts	Method	TBLASTX:Soybean
Start	22857	End	23177
GI	none	Score	138
Exons	22857..22973, 22859..22972, 23091..23168, 23093..23152, 23094..23177, 23095..23169		
Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95181	Strand	-
Start	39835	End	41708
Name	OJ000301_01.0407.C5.o9.tm	Method	TBLASTX:Maize
Start	22857	End	23177
GI	none	Score	138
Exons	22857..22973, 22859..22972, 23091..23168, 23093..23152, 23094..23177, 23095..23169		
Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95181	Strand	-
Start	39835	End	41708
Name	OJ000301_01.0407.C5.o10.tm	Method	TBLASTX:Maize
Start	26415	End	27007
GI	none	Score	75
Exons	26415..26573, 26416..26478, 26735..26878, 26805..26879, 26978..27007		
Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95181	Strand	-
Start	39835	End	41708
Name	OJ000301_01.0407.C5.o2.tm	Method	TBLASTX:Maize
Start	30852	End	31343
GI	none	Score	613
Exons	30852..31331, 30858..31337, 30898..31338, 31020..31343, 31277..31339		
Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95181	Strand	-
Start	39835	End	41708
Name	OJ000301_01.0407.C5.o3.tm	Method	TBLASTX:Maize
Start	31344	End	31616
GI	none	Score	373
Exons	31344..31616, 31344..31505, 31346..31612		

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95181	Strand	-
Start	39835	End	41708
Name	OJ000301_01.0407.C5.o1.tm	Method	TBLASTX:Maize
Start	35148	End	36481
GI	none	Score	144
Exons	35148..35279, 35152..35280, 35152..35280, 35154..35282, 35379..35576, 35380..35586, 35381..35584, 35706..35759, 35707..35760, 35883..35978, 35884..35982, 35885..35980, 36077..36163, 36078..36167, 36353..36481		

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95181	Strand	-
Start	39835	End	41708
Name	OJ000301_01.0407.C5.o4.ts	Method	TBLASTX:Soybean
Start	35157	End	35406
GI	none	Score	105
Exons	35157..35282, 35160..35282, 35164..35283, 35380..35406		

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95181	Strand	-
Start	39835	End	41708
Name	OJ000301_01.0407.C5.o2.ts	Method	TBLASTX:Soybean
Start	36434	End	36734
GI	none	Score	58
Exons	36434..36514, 36447..36515, 36462..36515, 36604..36726, 36605..36721, 36608..36733, 36609..36734, 36609..36734		

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95181	Strand	-
Start	39835	End	41708
Name	OJ000301_01.0407.C5.o7.tm	Method	TBLASTX:Maize
Start	36483	End	36719
GI	none	Score	51
Exons	36483..36515, 36487..36516, 36608..36718, 36609..36719		

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95181	Strand	-
Start	39835	End	41708
Name	OJ000301_01.0407.C5.o1.tc	Method	TBLASTX:Cress
Start	36501	End	36888
GI	none	Score	85
Exons	36501..36530, 36608..36748, 36609..36734, 36822..36887, 36823..36888		

Seq. No.	45056	Seq. ID	OJ000301_01.0407.C5
Gene No.	95181	Strand	-
Start	39835	End	41708
Name	OJ000301_01.0407.C5.o8.np	Method	AAT/NAP
Start	39835	End	41708
GI	7340868	Score	194
Exons	39835..40024, 41686..41708		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	45057	Seq. ID	OJ000301_01.0407.C6
Gene No.	95182	Strand	-

Start	424	End	5065
Name	OJ000301_01.0407.C6.o1.gs	Method	GENSCAN
Start	424	End	5065
GI	none	Score	.66
Exons	424..549, 1867..2110, 2206..2384, 3349..3393, 3808..4393, 4491..4674, 5014..5065		

Seq. No.	45058	Seq. ID	OJ000301_01.0407.C7
Gene No.	95183	Strand	-
Start	417	End	1395
Name	OJ000301_01.0407.C7.o1.gs	Method	GENSCAN
Start	417	End	1395
GI	none	Score	.42
Exons	417..521, 1013..1099, 1335..1395		

Seq. No.	45059	Seq. ID	OJ000301_01.0407.C8
Gene No.	95184	Strand	-
Start	348	End	839
Name	OJ000301_01.0407.C8.o1.gs	Method	GENSCAN
Start	348	End	839
GI	none	Score	.55
Exons	348..470, 768..839		

Seq. No.	45059	Seq. ID	OJ000301_01.0407.C8
Gene No.	95185	Strand	-
Start	1524	End	1649
Name	OJ000301_01.0407.C8.o1.np	Method	AAT/NAP
Start	1524	End	1649
GI	6006375	Score	177
Exons	1524..1649		
GI Descrip.	(AP000559) Similar to ORF3 protein - rice tungro bacilliform virus &RTUORFS_2 (C40785) [Oryza sativa]		

Seq. No.	45060	Seq. ID	OJ000301_01.0407.C9
Gene No.	95186	Strand	+
Start	2464	End	2932
Name	OJ000301_01.0407.C9.o1.gs	Method	GENSCAN
Start	2464	End	2932
GI	none	Score	.62
Exons	2464..2580, 2741..2932		

Seq. No.	45060	Seq. ID	OJ000301_01.0407.C9
Gene No.	95187	Strand	+
Start	11308	End	16654
Name	OJ000301_01.0407.C9.o2.gp	Method	AAT/GAP
Start	11212	End	11555
GI	uC-osflcyp175a01b1	Score	668
Exons	11212..11555		
GI Descrip.	'4176420/dbj BAA37167  2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	45060	Seq. ID	OJ000301_01.0407.C9
Gene No.	95187	Strand	+
Start	11308	End	16654
Name	OJ000301_01.0407.C9.o4.gs	Method	GENSCAN
Start	11308	End	16654
GI	none	Score	.71



Exons 11308..11662, 13880..13965, 15502..15565, 16614..16654

Seq. No. 45060 Seq. ID OJ000301\_01.0407.C9  
Gene No. 95188 Strand -  
Start 1 End 99  
Name OJ000301\_01.0407.C9.o1.gp Method AAT/GAP  
Start 1 End 99  
GI LIB3477-003-P1-K1-E9 Score 151  
Exons 1..99  
GI Descrip. '2498586/sp|Q40638|MP01\_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY  
S 1 PRECURSOR (ORY S I) >gi\_1173557 (U31771) Ory s 1 [Oryza  
sativa]'

Seq. No. 45060 Seq. ID OJ000301\_01.0407.C9  
Gene No. 95189 Strand -  
Start 4111 End 4394  
Name OJ000301\_01.0407.C9.o2.gs Method GENSCAN  
Start 4111 End 4394  
GI none Score .94  
Exons 4111..4240, 4246..4394

Seq. No. 45060 Seq. ID OJ000301\_01.0407.C9  
Gene No. 95190 Strand -  
Start 5226 End 9187  
Name OJ000301\_01.0407.C9.o3.gs Method GENSCAN  
Start 5226 End 9187  
GI none Score .63  
Exons 5226..5383, 6331..6508, 7518..7640, 8939..9090, 9175..9187

Seq. No. 45060 Seq. ID OJ000301\_01.0407.C9  
Gene No. 95191 Strand -  
Start 18012 End 18137  
Name OJ000301\_01.0407.C9.o5.gs Method GENSCAN  
Start 18012 End 18137  
GI none Score .54  
Exons 18012..18137

Seq. No. 45061 Seq. ID OJ000301\_01.0407.C10  
Gene No. 95192 Strand +  
Start 1 End 2190  
Name OJ000301\_01.0407.C10.o1.np Method AAT/NAP  
Start 1 End 616  
GI 461812 Score 374  
Exons 1..616  
GI Descrip. CYTOCHROME P450 72A1 (CYPLXXII) (PROBABLE  
GERANIOL-10-HYDROXYLASE) (GE10H) gi|7430704|pir||T09944 probable  
cytochrome P450 protein - Madagascar periwinkle  
gi|167484|gb|AAA33106.1| (L10081) Cytochrome P-450 protein  
[Catharanthus roseus] gi|445604|prf||1909351A cytochrome P450  
[Catharanthus roseus]

Seq. No. 45061 Seq. ID OJ000301\_01.0407.C10  
Gene No. 95192 Strand +  
Start 1 End 2190  
Name OJ000301\_01.0407.C10.o1.gs Method GENSCAN  
Start 59 End 2190  
GI none Score .69

Exons 59..614, 1062..1108, 1435..2190

Seq. No.	45061	Seq. ID	OJ000301_01.0407.C10
Gene No.	95193	Strand	+
Start	3260	End	9210
Name	OJ000301_01.0407.C10.o4.tw	Method	TBLASTX:Wheat
Start	1	End	247
GI	none	Score	185
Exons	1..99, 2..121, 11..118, 161..247		

Seq. No.	45061	Seq. ID	OJ000301_01.0407.C10
Gene No.	95193	Strand	+
Start	3260	End	9210
Name	OJ000301_01.0407.C10.o2.tm	Method	TBLASTX:Maize
Start	2	End	604
GI	none	Score	116
Exons	2..109, 10..96, 158..418, 184..420, 419..604, 421..534		

Seq. No.	45061	Seq. ID	OJ000301_01.0407.C10
Gene No.	95193	Strand	+
Start	3260	End	9210
Name	OJ000301_01.0407.C10.o2.ts	Method	TBLASTX:Soybean
Start	2	End	607
GI	none	Score	109
Exons	2..118, 10..96, 158..406, 181..390, 419..607		

Seq. No.	45061	Seq. ID	OJ000301_01.0407.C10
Gene No.	95193	Strand	+
Start	3260	End	9210
Name	OJ000301_01.0407.C10.o2.tc	Method	TBLASTX:Cress
Start	191	End	589
GI	none	Score	179
Exons	191..418, 419..589		

Seq. No.	45061	Seq. ID	OJ000301_01.0407.C10
Gene No.	95193	Strand	+
Start	3260	End	9210
Name	OJ000301_01.0407.C10.o2.tw	Method	TBLASTX:Wheat
Start	250	End	490
GI	none	Score	325
Exons	250..465, 251..490		

Seq. No.	45061	Seq. ID	OJ000301_01.0407.C10
Gene No.	95193	Strand	+
Start	3260	End	9210
Name	OJ000301_01.0407.C10.o2.gs	Method	GENSCAN
Start	3260	End	8894
GI	none	Score	.48
Exons	3260..3395, 3805..3842, 4461..4539, 4821..4865, 5416..5560, 6136..6286, 7234..7378, 7450..7600, 7683..7808, 7887..7967, 8340..8496, 8624..8894		

Seq. No.	45061	Seq. ID	OJ000301_01.0407.C10
Gene No.	95193	Strand	+
Start	3260	End	9210
Name	OJ000301_01.0407.C10.o4.tm	Method	TBLASTX:Maize
Start	6085	End	6223

GI	none	Score	191
Exons	6085..6222, 6086..6223		
Seq. No.	45061	Seq. ID	OJ000301_01.0407.C10
Gene No.	95193	Strand	+
Start	3260	End	9210
Name	OJ000301_01.0407.C10.o2.np	Method	AAT/NAP
Start	6095	End	9210
GI	6822065	Score	1394
Exons	6095..6286, 7234..7378, 7489..7600, 7683..7808, 7887..7967, 8340..8532, 8624..8894, 9184..9210		
GI Descrip.	(AL132957) putative protein [Arabidopsis thaliana]		

Seq. No.	45061	Seq. ID	OJ000301_01.0407.C10
Gene No.	95193	Strand	+
Start	3260	End	9210
Name	OJ000301_01.0407.C10.o3.tc	Method	TBLASTX:Cress
Start	6095	End	7734
GI	none	Score	75
Exons	6095..6163, 6140..6283, 6172..6276, 7234..7260, 7273..7341, 7276..7443, 7305..7382, 7447..7569, 7447..7584, 7448..7609, 7449..7601, 7657..7734, 7683..7727		

Seq. No.	45061	Seq. ID	OJ000301_01.0407.C10
Gene No.	95193	Strand	+
Start	3260	End	9210
Name	OJ000301_01.0407.C10.o1.ts	Method	TBLASTX:Soybean
Start	6104	End	8894
GI	none	Score	98
Exons	6104..6169, 6106..6132, 6131..6286, 6172..6276, 6197..6286, 6214..6288, 7231..7260, 7264..7443, 7296..7373, 7447..7581, 7448..7597, 7448..7603, 7449..7601, 7657..7806, 7683..7808, 7882..7965, 7884..7967, 8329..8532, 8337..8534, 8338..8535, 8615..8893, 8623..8892, 8628..8894		

Seq. No.	45061	Seq. ID	OJ000301_01.0407.C10
Gene No.	95193	Strand	+
Start	3260	End	9210
Name	OJ000301_01.0407.C10.o1.gp	Method	AAT/GAP
Start	6112	End	7583
GI	uC-osrocyp007f07b1	Score	864
Exons	6112..6286, 7234..7378, 7450..7583		
GI Descrip.	'3786009 1.0e-56 (AC005499) unknown protein [Arabidopsis thaliana]'		

Seq. No.	45061	Seq. ID	OJ000301_01.0407.C10
Gene No.	95193	Strand	+
Start	3260	End	9210
Name	OJ000301_01.0407.C10.o1.tm	Method	TBLASTX:Maize
Start	6223	End	8677
GI	none	Score	80
Exons	6223..6282, 6224..6298, 6227..6286, 7204..7350, 7220..7351, 7231..7443, 7232..7378, 7296..7382, 7405..7602, 7448..7609, 7449..7601, 7657..7806, 7669..7806, 7670..7807, 7671..7808, 7671..7808, 7835..7963, 7882..7965, 7884..7967, 8337..8537, 8338..8535, 8342..8560, 8615..8671, 8618..8677		

Seq. No.	45061	Seq. ID	OJ000301_01.0407.C10
Gene No.	95193	Strand	+
Start	3260	End	9210
Name	OJ000301_01.0407.C10.o3.tw	Method	TBLASTX:Wheat
Start	7887	End	8698
GI	none	Score	107
Exons	7887..7967, 7891..7965, 8337..8534, 8338..8535, 8383..8538, 8615..8698, 8623..8691		

Seq. No.	45061	Seq. ID	OJ000301_01.0407.C10
Gene No.	95193	Strand	+
Start	3260	End	9210
Name	OJ000301_01.0407.C10.o1.tc	Method	TBLASTX:Cress
Start	8329	End	8824
GI	none	Score	126
Exons	8329..8532, 8337..8531, 8337..8534, 8338..8535, 8615..8689, 8623..8691, 8687..8824, 8704..8823		

Seq. No.	45061	Seq. ID	OJ000301_01.0407.C10
Gene No.	95193	Strand	+
Start	3260	End	9210
Name	OJ000301_01.0407.C10.o2.gp	Method	AAT/GAP
Start	8474	End	8894
GI	74733_1.R1084	Score	507
Exons	8474..8532, 8624..8894		
GI Descrip.	'3786009 4.0e-45 (AC005499) unknown protein [Arabidopsis thaliana]'		

Seq. No.	45061	Seq. ID	OJ000301_01.0407.C10
Gene No.	95193	Strand	+
Start	3260	End	9210
Name	OJ000301_01.0407.C10.o3.tm	Method	TBLASTX:Maize
Start	8677	End	8859
GI	none	Score	317
Exons	8677..8859, 8678..8857, 8680..8859		

Seq. No.	45061	Seq. ID	OJ000301_01.0407.C10
Gene No.	95193	Strand	+
Start	3260	End	9210
Name	OJ000301_01.0407.C10.o1.tw	Method	TBLASTX:Wheat
Start	8704	End	8900
GI	none	Score	336
Exons	8704..8892, 8705..8893, 8705..8896, 8706..8900		

Seq. No.	45062	Seq. ID	OJ000301_01.0407.C12
Gene No.	95194	Strand	-
Start	1	End	887
Name	OJ000301_01.0407.C12.o1.gp	Method	AAT/GAP
Start	1	End	218
GI	25556_1.R1084	Score	260
Exons	1..78, 157..218		
GI Descrip.	'2252830 3.0e-17 (AF013293) weak similarity to receptor protein kinase [Arabidopsis thaliana] >gi_6049872_gb_AAF02787.1_AF195115_7 (AF195115) weak similarity to receptor protein kinase [Arabidopsis thaliana]'		

Seq. No.	45062	Seq. ID	OJ000301_01.0407.C12
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Gene No.	95194	Strand	-
Start	1	End	887
Name	OJ000301_01.0407.C12.o1.tw	Method	TBLASTX:Wheat
Start	1	End	682
GI	none	Score	102
Exons	1..78, 5..79, 157..414, 158..385, 219..398, 595..681, 614..682		

Seq. No.	45062	Seq. ID	OJ000301_01.0407.C12
Gene No.	95194	Strand	-
Start	1	End	887
Name	OJ000301_01.0407.C12.o1.np	Method	AAT/NAP
Start	1	End	887
GI	7329668	Score	572
Exons	1..78, 157..407, 627..678, 767..887		
GI Descrip.	(AL162351) putative protein [Arabidopsis thaliana]		

Seq. No.	45062	Seq. ID	OJ000301_01.0407.C12
Gene No.	95194	Strand	-
Start	1	End	887
Name	OJ000301_01.0407.C12.o1.tm	Method	TBLASTX:Maize
Start	1	End	420
GI	none	Score	64
Exons	1..75, 1..78, 5..79, 157..420, 158..403, 160..405		

Seq. No.	45062	Seq. ID	OJ000301_01.0407.C12
Gene No.	95194	Strand	-
Start	1	End	887
Name	OJ000301_01.0407.C12.o1.ts	Method	TBLASTX:Soybean
Start	1	End	414
GI	none	Score	71
Exons	1..75, 4..78, 5..79, 157..414, 158..403, 202..408		

Seq. No.	45062	Seq. ID	OJ000301_01.0407.C12
Gene No.	95194	Strand	-
Start	1	End	887
Name	OJ000301_01.0407.C12.o1.tc	Method	TBLASTX:Cress
Start	4	End	678
GI	none	Score	66
Exons	4..78, 5..79, 160..186, 209..376, 217..399, 631..678		

Seq. No.	45062	Seq. ID	OJ000301_01.0407.C12
Gene No.	95194	Strand	-
Start	1	End	887
Name	OJ000301_01.0407.C12.o1.gs	Method	GENSCAN
Start	157	End	678
GI	none	Score	.94
Exons	157..407, 627..678		

Seq. No.	45062	Seq. ID	OJ000301_01.0407.C12
Gene No.	95194	Strand	-
Start	1	End	887
Name	OJ000301_01.0407.C12.o2.tm	Method	TBLASTX:Maize
Start	613	End	887
GI	none	Score	64
Exons	613..681, 622..681, 623..694, 627..713, 746..886, 768..887		

Seq. No.	45062	Seq. ID	OJ000301_01.0407.C12
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Gene No. 95194  
 Start 1  
 Name OJ000301\_01.0407.C12.o2.ts  
 Start 622  
 GI none  
 Exons 622..681, 626..682, 746..877

Strand -  
 End 887  
 Method TBLASTX:Soybean  
 End 877  
 Score 66

Seq. No. 45063  
 Gene No. 95195  
 Start 1  
 Name OJ000301\_01.0407.C13.o1.gp  
 Start 1  
 GI 14533\_1.R1084  
 Exons 1..322  
 GI Descrip. '6015437/dbj|AB008112.1|AB008112 3.0e-10 Homo sapiens PEX1 mRNA, complete cds'

Seq. ID OJ000301\_01.0407.C13  
 Strand -  
 End 1203  
 Method AAT/GAP  
 End 322  
 Score 607

Seq. No. 45063  
 Gene No. 95195  
 Start 1  
 Name OJ000301\_01.0407.C13.o1.tm  
 Start 1  
 GI none  
 Exons 1..228, 1..204, 3..227, 92..250

Seq. ID OJ000301\_01.0407.C13  
 Strand -  
 End 1203  
 Method TBLASTX:Maize  
 End 250  
 Score 227

Seq. No. 45063  
 Gene No. 95195  
 Start 1  
 Name OJ000301\_01.0407.C13.o1.np  
 Start 1  
 GI 7329668  
 Exons 1..344, 672..741, 836..961, 1072..1203  
 GI Descrip. (AL162351) putative protein [Arabidopsis thaliana]

Seq. ID OJ000301\_01.0407.C13  
 Strand -  
 End 1203  
 Method AAT/NAP  
 End 1203  
 Score 242

Seq. No. 45064  
 Gene No. 95196  
 Start 1091  
 Name OJ000251\_09.0406.C2.o1.np  
 Start 1091  
 GI 2462759  
 Exons 1091..1166, 1347..1402, 1502..1579, 1699..1794, 2164..2221  
 GI Descrip. (AC002292) Putative Cytochrome B5 [Arabidopsis thaliana]

Seq. ID OJ000251\_09.0406.C2  
 Strand +  
 End 2221  
 Method AAT/NAP  
 End 2221  
 Score 169

Seq. No. 45064  
 Gene No. 95197  
 Start 869  
 Name OJ000251\_09.0406.C2.o1.gs  
 Start 869  
 GI none  
 Exons 869..1029, 2099..2189

Seq. ID OJ000251\_09.0406.C2  
 Strand -  
 End 2189  
 Method GENSCAN  
 End 2189  
 Score .41

Seq. No. 45064  
 Gene No. 95197  
 Start 869  
 Name OJ000251\_09.0406.C2.o1.tm  
 Start 1484  
 GI none

Seq. ID OJ000251\_09.0406.C2  
 Strand -  
 End 2189  
 Method TBLASTX:Maize  
 End 1818  
 Score 135

Exons 1484..1582, 1490..1582, 1696..1818, 1698..1796

Seq. No.	45064	Seq. ID	OJ000251_09.0406.C2
Gene No.	95197	Strand	-
Start	869	End	2189
Name	OJ000251_09.0406.C2.o1.ts	Method	TBLASTX:Soybean
Start	1508	End	1791
GI	none	Score	99
Exons	1508..1582, 1696..1791, 1698..1790		

Seq. No.	45065	Seq. ID	OJ000251_09.0406.C3
Gene No.	95198	Strand	+
Start	690	End	1129
Name	OJ000251_09.0406.C3.o1.gp	Method	AAT/GAP
Start	690	End	1129
GI	none	Score	797
Exons	690..1129		

Seq. No.	45065	Seq. ID	OJ000251_09.0406.C3
Gene No.	95199	Strand	+
Start	1147	End	1380
Name	OJ000251_09.0406.C3.o1.gs	Method	GENSCAN
Start	1147	End	1380
GI	none	Score	.8
Exons	1147..1380		

Seq. No.	45065	Seq. ID	OJ000251_09.0406.C3
Gene No.	95200	Strand	-
Start	1246	End	1416
Name	OJ000251_09.0406.C3.o2.gp	Method	AAT/GAP
Start	1246	End	1416
GI	uC-osrocyp012c07b1	Score	338
Exons	1246..1416		
GI Descrip.	'4454050/emb CAA23047.1  1.0e-10 (AL035394) putative protein [Arabidopsis thaliana]'		

Seq. No.	45066	Seq. ID	OJ000251_09.0406.C4
Gene No.	95201	Strand	-
Start	1	End	1523
Name	OJ000251_09.0406.C4.o1.gp	Method	AAT/GAP
Start	1	End	146
GI	uC-osrocyp012c07b1	Score	288
Exons	1..146		
GI Descrip.	'4454050/emb CAA23047.1  1.0e-10 (AL035394) putative protein [Arabidopsis thaliana]'		

Seq. No.	45066	Seq. ID	OJ000251_09.0406.C4
Gene No.	95201	Strand	-
Start	1	End	1523
Name	OJ000251_09.0406.C4.o1.tm	Method	TBLASTX:Maize
Start	1	End	1131
GI	none	Score	167
Exons	1..159, 3..158, 578..634, 579..647, 579..716, 580..717, 828..881, 829..891, 880..1029, 953..1030, 958..1050, 1030..1110, 1030..1131, 1031..1126		

Seq. No.	45066	Seq. ID	OJ000251_09.0406.C4
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Gene No.	95201	Strand	-
Start	1	End	1523
Name	OJ000251_09.0406.C4.o1.np	Method	AAT/NAP
Start	1	End	1523
GI	7486745	Score	199
Exons	1..156, 580..734, 1145..1523		
GI Descrip.	hypothetical protein F9D16.280 - Arabidopsis thaliana gi 4454050 emb CAA23047.1  (AL035394) putative protein [Arabidopsis thaliana] gi 7269230 emb CAB81299.1  (AL161560) putative protein [Arabidopsis thaliana]		

Seq. No.	45066	Seq. ID	OJ000251_09.0406.C4
Gene No.	95201	Strand	-
Start	1	End	1523
Name	OJ000251_09.0406.C4.o1.tw	Method	TBLASTX:Wheat
Start	12	End	158
GI	none	Score	155
Exons	12..131, 13..132, 120..158		

Seq. No.	45066	Seq. ID	OJ000251_09.0406.C4
Gene No.	95201	Strand	-
Start	1	End	1523
Name	OJ000251_09.0406.C4.o1.ts	Method	TBLASTX:Soybean
Start	39	End	722
GI	none	Score	97
Exons	39..176, 43..159, 579..647, 580..648, 648..722		

Seq. No.	45066	Seq. ID	OJ000251_09.0406.C4
Gene No.	95201	Strand	-
Start	1	End	1523
Name	OJ000251_09.0406.C4.o1.gs	Method	GENSCAN
Start	43	End	1131
GI	none	Score	.86
Exons	43..156, 580..714, 830..1131		

Seq. No.	45066	Seq. ID	OJ000251_09.0406.C4
Gene No.	95201	Strand	-
Start	1	End	1523
Name	OJ000251_09.0406.C4.o2.gp	Method	AAT/GAP
Start	287	End	754
GI	none	Score	875
Exons	287..754		

Seq. No.	45067	Seq. ID	OJ000251_09.0406.C6
Gene No.	95202	Strand	+
Start	8421	End	11193
Name	OJ000251_09.0406.C6.o3.gs	Method	GENSCAN
Start	8421	End	11193
GI	none	Score	.5
Exons	8421..8529, 8684..8980, 9877..9950, 10951..11193		

Seq. No.	45067	Seq. ID	OJ000251_09.0406.C6
Gene No.	95203	Strand	-
Start	562	End	2612
Name	OJ000251_09.0406.C6.o1.gs	Method	GENSCAN
Start	562	End	2612
GI	none	Score	.65



Exons 562..569, 1458..1584, 2067..2612

Seq. No.	45067	Seq. ID	OJ000251_09.0406.C6
Gene No.	95204	Strand	-
Start	3401	End	6697
Name	OJ000251_09.0406.C6.o2.gs	Method	GENSCAN
Start	3401	End	6697
GI	none	Score	.61
Exons	3401..3546, 3767..3823, 4137..4240, 6687..6697		

Seq. No.	45067	Seq. ID	OJ000251_09.0406.C6
Gene No.	95205	Strand	-
Start	13087	End	14295
Name	OJ000251_09.0406.C6.o4.gs	Method	GENSCAN
Start	13087	End	14295
GI	none	Score	1
Exons	13087..14295		

Seq. No.	45067	Seq. ID	OJ000251_09.0406.C6
Gene No.	95205	Strand	-
Start	13087	End	14295
Name	OJ000251_09.0406.C6.o1.np	Method	AAT/NAP
Start	13090	End	14295
GI	1196998	Score	2114
Exons	13090..14295		
GI Descrip.	(J01829) unknown protein [Transposon Tn10] gi 5103202 dbj BAA78838.1  (AP000342) transposase of Tn10 [Plasmid R100] gi 5706382 dbj BAA83097.1  (AB026428) transposase [Methylobacterium aminofaciens] gi 5738092 gb AAD50250.1 AF162223_9 (AF162223) IS10-right transposase [Shigella flexneri] gi 6721110 gb AAF26764.1 AC007396_13 (AC007396) T4012.21 [Arabidopsis thaliana]		

Seq. No.	45067	Seq. ID	OJ000251_09.0406.C6
Gene No.	95206	Strand	-
Start	19113	End	21653
Name	OJ000251_09.0406.C6.o1.tc	Method	TBLASTX:Cress
Start	14255	End	14412
GI	none	Score	216
Exons	14255..14401, 14255..14401, 14256..14402, 14257..14412, 14257..14403		

Seq. No.	45067	Seq. ID	OJ000251_09.0406.C6
Gene No.	95206	Strand	-
Start	19113	End	21653
Name	OJ000251_09.0406.C6.o2.np	Method	AAT/NAP
Start	19113	End	21653
GI	7523483	Score	701
Exons	19113..19498, 19617..19735, 19880..20199, 21609..21653		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	45067	Seq. ID	OJ000251_09.0406.C6
Gene No.	95206	Strand	-
Start	19113	End	21653
Name	OJ000251_09.0406.C6.o3.np	Method	AAT/NAP
Start	20290	End	20425
GI	5777617	Score	65

Exons 20290..20425  
GI Descrip. (AJ245900) CAA30375.1 protein [Oryza sativa]

Seq. No.	45068	Seq. ID	OJ000251_09.0406.C7
Gene No.	95207	Strand	-
Start	732	End	3775
Name	OJ000251_09.0406.C7.o1.gs	Method	GENSCAN
Start	732	End	2135
GI	none	Score	.65
Exons	732..973, 1144..1464, 1988..2135		

Seq. No.	45068	Seq. ID	OJ000251_09.0406.C7
Gene No.	95207	Strand	-
Start	732	End	3775
Name	OJ000251_09.0406.C7.o1.np	Method	AAT/NAP
Start	1773	End	3775
GI	7489374	Score	222
Exons	1773..1804, 3215..3775		
GI Descrip.	hypothetical protein - barley gi 1666236 gb AAB18645.1  (U76261) unknown [Hordeum vulgare]		

Seq. No.	45068	Seq. ID	OJ000251_09.0406.C7
Gene No.	95208	Strand	-
Start	6067	End	6740
Name	OJ000251_09.0406.C7.o1.tw	Method	TBLASTX:Wheat
Start	3258	End	3604
GI	none	Score	97
Exons	3258..3422, 3428..3469, 3488..3604		

Seq. No.	45068	Seq. ID	OJ000251_09.0406.C7
Gene No.	95208	Strand	-
Start	6067	End	6740
Name	OJ000251_09.0406.C7.o3.gs	Method	GENSCAN
Start	6067	End	6740
GI	none	Score	.43
Exons	6067..6277, 6634..6740		

Seq. No.	45069	Seq. ID	OJ000251_09.0406.C9
Gene No.	95209	Strand	+
Start	104	End	657
Name	OJ000251_09.0406.C9.o1.gs	Method	GENSCAN
Start	104	End	657
GI	none	Score	.45
Exons	104..657		

Seq. No.	45070	Seq. ID	OJ000251_09.0406.C10
Gene No.	95210	Strand	+
Start	212	End	333
Name	OJ000251_09.0406.C10.o1.gs	Method	GENSCAN
Start	212	End	333
GI	none	Score	.99
Exons	212..333		

Seq. No.	45070	Seq. ID	OJ000251_09.0406.C10
Gene No.	95211	Strand	-
Start	1079	End	4171
Name	OJ000251_09.0406.C10.o2.gs	Method	GENSCAN

Start	1079	End	4171
GI	none	Score	.56
Exons	1079..1207, 1361..1575, 1886..2080, 2116..2538, 3309..3361, 3501..3772, 4145..4171		

Seq. No.	45070	Seq. ID	OJ000251_09.0406.C10
Gene No.	95211	Strand	-
Start	1079	End	4171
Name	OJ000251_09.0406.C10.o1.np	Method	AAT/NAP
Start	1252	End	2869
GI	6907086	Score	340
Exons	1252..1342, 1391..1710, 1786..1917, 1997..2869		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	45071	Seq. ID	OJ000251_09.0406.C12
Gene No.	95212	Strand	+
Start	1190	End	2862
Name	OJ000251_09.0406.C12.o1.gs	Method	GENSCAN
Start	1190	End	2862
GI	none	Score	.52
Exons	1190..1226, 2702..2862		

Seq. No.	45071	Seq. ID	OJ000251_09.0406.C12
Gene No.	95213	Strand	+
Start	4531	End	10413
Name	OJ000251_09.0406.C12.o1.np	Method	AAT/NAP
Start	4261	End	10413
GI	7228438	Score	3109
Exons	4261..6243, 7801..7896, 7981..8394, 8475..8773, 8878..9139, 9232..9383, 10389..10413		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog (AC003981) [Oryza sativa]		

Seq. No.	45071	Seq. ID	OJ000251_09.0406.C12
Gene No.	95213	Strand	+
Start	4531	End	10413
Name	OJ000251_09.0406.C12.o2.gs	Method	GENSCAN
Start	4531	End	10390
GI	none	Score	.72
Exons	4531..6179, 6202..6311, 6580..6896, 7381..7454, 7530..7896, 7981..8203, 8276..8394, 8475..8773, 8878..9139, 9232..9339, 9386..9487, 9756..10131, 10173..10390		

Seq. No.	45071	Seq. ID	OJ000251_09.0406.C12
Gene No.	95213	Strand	+
Start	4531	End	10413
Name	OJ000251_09.0406.C12.o1.tm	Method	TBLASTX:Maize
Start	5209	End	5805
GI	none	Score	346
Exons	5209..5676, 5214..5687, 5734..5805		

Seq. No.	45071	Seq. ID	OJ000251_09.0406.C12
Gene No.	95213	Strand	+
Start	4531	End	10413
Name	OJ000251_09.0406.C12.o1.tw	Method	TBLASTX:Wheat
Start	5503	End	5880

GI	none	Score	181
Exons	5503..5652, 5505..5657, 5506..5682, 5715..5774, 5716..5880, 5729..5869		

Seq. No.	45071	Seq. ID	OJ000251_09.0406.C12
Gene No.	95213	Strand	+
Start	4531	End	10413
Name	OJ000251_09.0406.C12.o1.gp	Method	AAT/GAP
Start	7569	End	9818
GI	LIB3433-020-P1-K1-A6	Score	766
Exons	7569..7611, 9432..9818		
GI Descrip.	'5670155/gb AF161269.1 AF161269 2.0e-35 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		

Seq. No.	45071	Seq. ID	OJ000251_09.0406.C12
Gene No.	95213	Strand	+
Start	4531	End	10413
Name	OJ000251_09.0406.C12.o2.tw	Method	TBLASTX:Wheat
Start	7621	End	7803
GI	none	Score	92
Exons	7621..7674, 7635..7685, 7683..7802, 7684..7803		

Seq. No.	45072	Seq. ID	OJ000251_09.0406.C13
Gene No.	95214	Strand	+
Start	1	End	1742
Name	OJ000251_09.0406.C13.o1.np	Method	AAT/NAP
Start	1	End	405
GI	7228438	Score	195
Exons	1..405		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog (AC003981) [Oryza sativa]		

Seq. No.	45072	Seq. ID	OJ000251_09.0406.C13
Gene No.	95214	Strand	+
Start	1	End	1742
Name	OJ000251_09.0406.C13.o1.gs	Method	GENSCAN
Start	85	End	527
GI	none	Score	.46
Exons	85..173, 211..308, 491..527		

Seq. No.	45072	Seq. ID	OJ000251_09.0406.C13
Gene No.	95214	Strand	+
Start	1	End	1742
Name	OJ000251_09.0406.C13.o2.np	Method	AAT/NAP
Start	247	End	1742
GI	5852093	Score	78
Exons	247..353, 1626..1742		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	45072	Seq. ID	OJ000251_09.0406.C13
Gene No.	95215	Strand	-
Start	1844	End	2356
Name	OJ000251_09.0406.C13.o2.gs	Method	GENSCAN
Start	1844	End	2356
GI	none	Score	.41
Exons	1844..1906, 2297..2356		

Seq. No.	45073	Seq. ID	OJ000251_09.0406.C14
Gene No.	95216	Strand	+
Start	4060	End	7136
Name	OJ000251_09.0406.C14.o1.np	Method	AAT/NAP
Start	4060	End	7136
GI	7446442	Score	678
Exons	4060..4834, 4871..5095, 5165..5526, 6585..7136		
GI Descrip.	probable serine/threonine-specific protein kinase T14P8.3 (EC 2.7.1.-) - Arabidopsis thaliana gi 3193302 gb AAC19286.1  (AF069298) contains similarity to a protein kinase domain (Pfam: pkinase.hmm, score: 166.20) and to legume lectins beta domain (Pfam: lectin_legB.hmm, score: 139.32) [Arabidopsis thaliana] gi 7269001 emb CAB80734.1  (AL161494) contains similarity to a prot		

Seq. No.	45073	Seq. ID	OJ000251_09.0406.C14
Gene No.	95216	Strand	+
Start	4060	End	7136
Name	OJ000251_09.0406.C14.o3.tm	Method	TBLASTX:Maize
Start	4191	End	4440
GI	none	Score	189
Exons	4191..4430, 4264..4440		

Seq. No.	45073	Seq. ID	OJ000251_09.0406.C14
Gene No.	95216	Strand	+
Start	4060	End	7136
Name	OJ000251_09.0406.C14.o3.ts	Method	TBLASTX:Soybean
Start	4264	End	4866
GI	none	Score	112
Exons	4264..4407, 4501..4536, 4543..4614, 4705..4797, 4798..4866		

Seq. No.	45073	Seq. ID	OJ000251_09.0406.C14
Gene No.	95216	Strand	+
Start	4060	End	7136
Name	OJ000251_09.0406.C14.o1.tc	Method	TBLASTX:Cress
Start	4717	End	7115
GI	none	Score	77
Exons	4717..4827, 5149..5274, 5328..5489, 5329..5487, 6576..6767, 6755..6880, 6756..6986, 7008..7115		

Seq. No.	45073	Seq. ID	OJ000251_09.0406.C14
Gene No.	95216	Strand	+
Start	4060	End	7136
Name	OJ000251_09.0406.C14.o2.ts	Method	TBLASTX:Soybean
Start	5167	End	5487
GI	none	Score	112
Exons	5167..5277, 5293..5487		

Seq. No.	45073	Seq. ID	OJ000251_09.0406.C14
Gene No.	95216	Strand	+
Start	4060	End	7136
Name	OJ000251_09.0406.C14.o2.tm	Method	TBLASTX:Maize
Start	5173	End	5418
GI	none	Score	150
Exons	5173..5319, 5326..5418, 5337..5417		

Seq. No.	45073	Seq. ID	OJ000251_09.0406.C14
Gene No.	95216	Strand	+
Start	4060	End	7136
Name	OJ000251_09.0406.C14.o1.tm	Method	TBLASTX:Maize
Start	5434	End	7130
GI	none	Score	79
Exons	5434..5523, 6563..6649, 6564..6758, 6710..6736, 6744..6899, 6921..7031, 6930..6986, 7008..7130		

Seq. No.	45073	Seq. ID	OJ000251_09.0406.C14
Gene No.	95216	Strand	+
Start	4060	End	7136
Name	OJ000251_09.0406.C14.o1.ts	Method	TBLASTX:Soybean
Start	6578	End	6986
GI	none	Score	204
Exons	6578..6646, 6579..6767, 6755..6874, 6765..6893, 6921..6986		

Seq. No.	45073	Seq. ID	OJ000251_09.0406.C14
Gene No.	95216	Strand	+
Start	4060	End	7136
Name	OJ000251_09.0406.C14.o1.tw	Method	TBLASTX:Wheat
Start	6633	End	6911
GI	none	Score	217
Exons	6633..6911, 6710..6874		

Seq. No.	45074	Seq. ID	OJ000251_09.0406.C15
Gene No.	95217	Strand	-
Start	326	End	6799
Name	OJ000251_09.0406.C15.o1.gs	Method	GENSCAN
Start	326	End	6799
GI	none	Score	.58
Exons	326..370, 1214..1813, 1898..2438, 2531..2826, 2844..3070, 3166..3482, 4242..4344, 5691..5881, 6323..6509, 6700..6799		

Seq. No.	45074	Seq. ID	OJ000251_09.0406.C15
Gene No.	95217	Strand	-
Start	326	End	6799
Name	OJ000251_09.0406.C15.o1.np	Method	AAT/NAP
Start	891	End	3014
GI	4206204	Score	380
Exons	891..978, 1284..1822, 1895..2422, 2535..3014		
GI Descrip.	(AF071527) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45074	Seq. ID	OJ000251_09.0406.C15
Gene No.	95218	Strand	-
Start	8075	End	9480
Name	OJ000251_09.0406.C15.o2.gs	Method	GENSCAN
Start	8075	End	8692
GI	none	Score	.92
Exons	8075..8294, 8592..8692		

Seq. No.	45074	Seq. ID	OJ000251_09.0406.C15
Gene No.	95218	Strand	-
Start	8075	End	9480
Name	OJ000251_09.0406.C15.o2.np	Method	AAT/NAP
Start	8452	End	9480
GI	2496862	Score	70

Exons 8452..8493, 9363..9480  
 GI Descrip. HYPOTHETICAL 6.1 KD PROTEIN C03B1.10 IN CHROMOSOME X gi|1072242  
 (U40952) C03B1.10 gene product [Caenorhabditis elegans]

Seq. No.	45075	Seq. ID	OJ000251_09.0406.C17
Gene No.	95219	Strand	+
Start	9685	End	13690
Name	OJ000251_09.0406.C17.o1.np	Method	AAT/NAP
Start	9685	End	13678
GI	7076798	Score	351
Exons	9685..9722, 12392..12747, 13141..13678		
GI Descrip.	(AL132975) probable serine/threonine-specific protein kinase [Arabidopsis thaliana]		

Seq. No.	45075	Seq. ID	OJ000251_09.0406.C17
Gene No.	95219	Strand	+
Start	9685	End	13690
Name	OJ000251_09.0406.C17.o3.gs	Method	GENSCAN
Start	12353	End	13690
GI	none	Score	.8
Exons	12353..12747, 13141..13690		

Seq. No.	45075	Seq. ID	OJ000251_09.0406.C17
Gene No.	95220	Strand	-
Start	70	End	4806
Name	OJ000251_09.0406.C17.o1.gs	Method	GENSCAN
Start	70	End	4806
GI	none	Score	.77
Exons	70..111, 1509..1790, 1844..1993, 2011..2153, 2503..2601, 2685..2896, 4772..4806		

Seq. No.	45075	Seq. ID	OJ000251_09.0406.C17
Gene No.	95221	Strand	-
Start	6099	End	7849
Name	OJ000251_09.0406.C17.o2.gs	Method	GENSCAN
Start	6099	End	7849
GI	none	Score	.79
Exons	6099..6500, 6538..6647, 6916..6962, 7519..7777, 7783..7849		

Seq. No.	45075	Seq. ID	OJ000251_09.0406.C17
Gene No.	95222	Strand	-
Start	8333	End	8488
Name	OJ000251_09.0406.C17.o1.gp	Method	AAT/GAP
Start	8333	End	8488
GI	uC-osflcyp104c12a1	Score	210
Exons	8333..8488		
GI Descrip.	'5852170/emb AL117265.1 OST17804 3.0e-29 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	45075	Seq. ID	OJ000251_09.0406.C17
Gene No.	95223	Strand	-
Start	13783	End	15156
Name	OJ000251_09.0406.C17.o4.gs	Method	GENSCAN
Start	13783	End	15156
GI	none	Score	.78
Exons	13783..13787, 14041..14149, 14222..14323, 14890..15156		

Seq. No.	45075	Seq. ID	OJ000251_09.0406.C17
Gene No.	95224	Strand	-
Start	16357	End	20474
Name	OJ000251_09.0406.C17.o2.ts	Method	TBLASTX:Soybean
Start	2511	End	2823
GI	none	Score	88
Exons	2511..2621, 2513..2602, 2672..2821, 2683..2823		

Seq. No.	45075	Seq. ID	OJ000251_09.0406.C17
Gene No.	95224	Strand	-
Start	16357	End	20474
Name	OJ000251_09.0406.C17.o1.ts	Method	TBLASTX:Soybean
Start	12590	End	13672
GI	none	Score	81
Exons	12590..12721, 13139..13294, 13343..13453, 13487..13672		

Seq. No.	45075	Seq. ID	OJ000251_09.0406.C17
Gene No.	95224	Strand	-
Start	16357	End	20474
Name	OJ000251_09.0406.C17.o1.tc	Method	TBLASTX:Cress
Start	12614	End	13678
GI	none	Score	90
Exons	12614..12718, 13139..13288, 13169..13288, 13343..13678, 13354..13551		

Seq. No.	45075	Seq. ID	OJ000251_09.0406.C17
Gene No.	95224	Strand	-
Start	16357	End	20474
Name	OJ000251_09.0406.C17.o1.tm	Method	TBLASTX:Maize
Start	12644	End	13672
GI	none	Score	74
Exons	12644..12748, 13139..13288, 13178..13321, 13337..13462, 13493..13672, 13495..13620		

Seq. No.	45075	Seq. ID	OJ000251_09.0406.C17
Gene No.	95224	Strand	-
Start	16357	End	20474
Name	OJ000251_09.0406.C17.o5.gs	Method	GENSCAN
Start	16357	End	20218
GI	none	Score	.74
Exons	16357..16473, 16563..16851, 17182..17331, 17535..17736, 17845..18012, 18246..18462, 18676..18876, 18975..19196, 19829..19932, 19956..20218		

Seq. No.	45075	Seq. ID	OJ000251_09.0406.C17
Gene No.	95224	Strand	-
Start	16357	End	20474
Name	OJ000251_09.0406.C17.o2.np	Method	AAT/NAP
Start	17175	End	20474
GI	5734709	Score	144
Exons	17175..17202, 17719..17807, 19829..20230, 20418..20474		
GI Descrip.	(AC008075) Contains PF 00069 Eukaryotic protein kinase domain. [Arabidopsis thaliana]		

Seq. No.	45075	Seq. ID	OJ000251_09.0406.C17
Gene No.	95225	Strand	-
Start	20479	End	21441



Name	OJ000251_09.0406.C17.o2.tm	Method	TBLASTX:Maize
Start	20479	End	21441
GI	none	Score	63
Exons	20479..20628, 20548..20628, 20554..20634, 20557..20637, 20557..20634, 20558..20635, 20559..20639, 20647..20784, 20663..20788, 20682..20792, 20686..20790, 20712..20795, 20712..20798, 20713..20796, 20714..20791, 20819..20950, 20819..20953, 20833..20955, 20834..20959, 20840..20959, 20842..20955, 20848..20958, 21002..21079, 21007..21159, 21010..21159, 21024..21173, 21025..21165, 21025..21165, 21030..21167, 21046..21174, 21046..21219, 21051..21182, 21053..21187, 21063..21191, 21188..21292, 21188..21319, 21210..21293, 21216..21359, 21216..21320, 21218..21343, 21222..21293, 21336..21434, 21355..21438, 21355..21435, 21356..21436, 21357..21434, 21358..21441, 21360..21437, 21364..21441		

Seq. No.	45076	Seq. ID	OJ000251_09.0406.C18
Gene No.	95226	Strand	-
Start	444	End	4478
Name	OJ000251_09.0406.C18.o1.np	Method	AAT/NAP
Start	418	End	4478
GI	4680203	Score	1807
Exons	418..1313, 1590..1823, 1983..3628, 4448..4478		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	45076	Seq. ID	OJ000251_09.0406.C18
Gene No.	95226	Strand	-
Start	444	End	4478
Name	OJ000251_09.0406.C18.o1.gs	Method	GENSCAN
Start	444	End	3432
GI	none	Score	.67
Exons	444..958, 1030..1227, 1814..1951, 2589..2895, 3199..3432		

Seq. No.	45076	Seq. ID	OJ000251_09.0406.C18
Gene No.	95226	Strand	-
Start	444	End	4478
Name	OJ000251_09.0406.C18.o1.tw	Method	TBLASTX:Wheat
Start	498	End	1694
GI	none	Score	72
Exons	498..617, 618..722, 619..723, 741..794, 794..838, 795..845, 860..979, 861..989, 862..981, 986..1189, 1008..1145, 1191..1694, 1192..1662		

Seq. No.	45076	Seq. ID	OJ000251_09.0406.C18
Gene No.	95226	Strand	-
Start	444	End	4478
Name	OJ000251_09.0406.C18.o2.ts	Method	TBLASTX:Soybean
Start	561	End	809
GI	none	Score	93
Exons	561..809, 565..807		

Seq. No.	45076	Seq. ID	OJ000251_09.0406.C18
Gene No.	95226	Strand	-
Start	444	End	4478
Name	OJ000251_09.0406.C18.o2.tc	Method	TBLASTX:Cress
Start	1038	End	1419

GI	none	Score	47
Exons	1038..1145, 1040..1189, 1140..1415, 1192..1419		
Seq. No.	45076	Seq. ID	OJ000251_09.0406.C18
Gene No.	95226	Strand	-
Start	444	End	4478
Name	OJ000251_09.0406.C18.o1.tm	Method	TBLASTX:Maize
Start	1350	End	1655
GI	none	Score	78
Exons	1350..1655, 1368..1478, 1369..1653		
Seq. No.	45076	Seq. ID	OJ000251_09.0406.C18
Gene No.	95226	Strand	-
Start	444	End	4478
Name	OJ000251_09.0406.C18.o3.tm	Method	TBLASTX:Maize
Start	1848	End	2072
GI	none	Score	80
Exons	1848..2072, 1857..2000		
Seq. No.	45076	Seq. ID	OJ000251_09.0406.C18
Gene No.	95226	Strand	-
Start	444	End	4478
Name	OJ000251_09.0406.C18.o3.ts	Method	TBLASTX:Soybean
Start	2148	End	2381
GI	none	Score	74
Exons	2148..2381, 2157..2357, 2221..2358		
Seq. No.	45076	Seq. ID	OJ000251_09.0406.C18
Gene No.	95226	Strand	-
Start	444	End	4478
Name	OJ000251_09.0406.C18.o2.tm	Method	TBLASTX:Maize
Start	2217	End	2667
GI	none	Score	70
Exons	2217..2408, 2454..2510, 2491..2661, 2536..2667		
Seq. No.	45076	Seq. ID	OJ000251_09.0406.C18
Gene No.	95226	Strand	-
Start	444	End	4478
Name	OJ000251_09.0406.C18.o3.tw	Method	TBLASTX:Wheat
Start	2256	End	2553
GI	none	Score	65
Exons	2256..2408, 2257..2382, 2315..2410, 2442..2513, 2457..2519, 2470..2514, 2530..2553, 2531..2551		
Seq. No.	45076	Seq. ID	OJ000251_09.0406.C18
Gene No.	95226	Strand	-
Start	444	End	4478
Name	OJ000251_09.0406.C18.o1.tc	Method	TBLASTX:Cress
Start	2518	End	2856
GI	none	Score	93
Exons	2518..2856, 2531..2659, 2699..2836		
Seq. No.	45076	Seq. ID	OJ000251_09.0406.C18
Gene No.	95226	Strand	-
Start	444	End	4478
Name	OJ000251_09.0406.C18.o1.ts	Method	TBLASTX:Soybean
Start	2587	End	3003

GI	none	Score	109
Exons	2587..2856, 2600..2833, 2863..3003, 2876..2998		

Seq. No.	45076	Seq. ID	OJ000251_09.0406.C18
Gene No.	95226	Strand	-
Start	444	End	4478
Name	OJ000251_09.0406.C18.o2.tw	Method	TBLASTX:Wheat
Start	2587	End	3282
GI	none	Score	38
Exons	2587..2727, 2645..2731, 2731..2853, 2747..2845, 2866..3282, 2867..3193		

Seq. No.	45077	Seq. ID	OJ000251_09.0406.C19
Gene No.	95227	Strand	+
Start	1	End	114
Name	OJ000251_09.0406.C19.o1.gp	Method	AAT/GAP
Start	1	End	114
GI	7406_1.R1084	Score	169
Exons	1..114		
GI Descrip.	'1122315/emb CAA63901  7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'		

Seq. No.	45077	Seq. ID	OJ000251_09.0406.C19
Gene No.	95228	Strand	+
Start	566	End	1963
Name	OJ000251_09.0406.C19.o1.gs	Method	GENSCAN
Start	566	End	1963
GI	none	Score	.98
Exons	566..1963		

Seq. No.	45077	Seq. ID	OJ000251_09.0406.C19
Gene No.	95228	Strand	+
Start	566	End	1963
Name	OJ000251_09.0406.C19.o1.np	Method	AAT/NAP
Start	566	End	1959
GI	7228442	Score	2367
Exons	566..1959		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	45077	Seq. ID	OJ000251_09.0406.C19
Gene No.	95229	Strand	-
Start	1332	End	2549
Name	OJ000251_09.0406.C19.o2.np	Method	AAT/NAP
Start	1332	End	2549
GI	6721543	Score	80
Exons	1332..1375, 2449..2549		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	45077	Seq. ID	OJ000251_09.0406.C19
Gene No.	95229	Strand	-
Start	1332	End	2549
Name	OJ000251_09.0406.C19.o1.tm	Method	TBLASTX:Maize
Start	1580	End	1954
GI	none	Score	93
Exons	1580..1708, 1588..1686, 1742..1954, 1759..1953		

Seq. No.	45077	Seq. ID	OJ000251_09.0406.C19
Gene No.	95229	Strand	-
Start	1332	End	2549
Name	OJ000251_09.0406.C19.o2.gp	Method	AAT/GAP
Start	1623	End	1967
GI	5701669	Score	626
Exons	1623..1967		
GI Descrip.	5441880/dbj BAA82378.1  5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	45077	Seq. ID	OJ000251_09.0406.C19
Gene No.	95229	Strand	-
Start	1332	End	2549
Name	OJ000251_09.0406.C19.o3.gp	Method	AAT/GAP
Start	2157	End	2549
GI	7406_1.R1084	Score	665
Exons	2157..2549		
GI Descrip.	'1122315/emb CAA63901  7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'		

Seq. No.	45078	Seq. ID	OJ000251_09.0406.C20
Gene No.	95230	Strand	-
Start	1880	End	2932
Name	OJ000251_09.0406.C20.o2.gs	Method	GENSCAN
Start	1880	End	2932
GI	none	Score	1
Exons	1880..2932		

Seq. No.	45078	Seq. ID	OJ000251_09.0406.C20
Gene No.	95231	Strand	-
Start	4861	End	4995
Name	OJ000251_09.0406.C20.o3.gs	Method	GENSCAN
Start	4861	End	4995
GI	none	Score	.46
Exons	4861..4995		

Seq. No.	45079	Seq. ID	OJ000251_09.0406.C22
Gene No.	95232	Strand	+
Start	187	End	995
Name	OJ000251_09.0406.C22.o1.gs	Method	GENSCAN
Start	187	End	995
GI	none	Score	.43
Exons	187..203, 881..995		

Seq. No.	45079	Seq. ID	OJ000251_09.0406.C22
Gene No.	95233	Strand	-
Start	1	End	136
Name	OJ000251_09.0406.C22.o1.np	Method	AAT/NAP
Start	1	End	136
GI	7446442	Score	89
Exons	1..136		
GI Descrip.	probable serine/threonine-specific protein kinase T14P8.3 (EC 2.7.1.-) - Arabidopsis thaliana gi 3193302 gb AAC19286.1  (AF069298) contains similarity to a protein kinase domain (Pfam: pkinase.hmm, score: 166.20) and to legume lectins beta domain		

(Pfam: lectin\_legB.hmm, score: 139.32) [Arabidopsis thaliana] gi|7269001|emb|CAB80734.1| (AL161494) contains similarity to a prot

Seq. No.	45080	Seq. ID	OJ000251_09.0406.C23
Gene No.	95234	Strand	+
Start	612	End	1231
Name	OJ000251_09.0406.C23.o1.gs	Method	GENSCAN
Start	612	End	1231
GI	none	Score	.54
Exons	612..745, 1100..1231		

Seq. No.	45080	Seq. ID	OJ000251_09.0406.C23
Gene No.	95235	Strand	+
Start	2753	End	4521
Name	OJ000251_09.0406.C23.o1.np	Method	AAT/NAP
Start	2753	End	4521
GI	5902445	Score	2820
Exons	2753..4521		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	45080	Seq. ID	OJ000251_09.0406.C23
Gene No.	95236	Strand	+
Start	12028	End	13230
Name	OJ000251_09.0406.C23.o5.np	Method	AAT/NAP
Start	12028	End	13230
GI	7486419	Score	98
Exons	12028..12248, 12575..13039, 13124..13230		
GI Descrip.	hypothetical protein F4D11.90 - Arabidopsis thaliana gi 3063699 emb CAA18590.1  (AL022537) putative protein [Arabidopsis thaliana] gi 7270175 emb CAB79988.1  (AL161581) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	45080	Seq. ID	OJ000251_09.0406.C23
Gene No.	95237	Strand	-
Start	5097	End	13047
Name	OJ000251_09.0406.C23.o4.tm	Method	TBLASTX:Maize
Start	546	End	1159
GI	none	Score	71
Exons	546..662, 547..663, 914..1006, 915..995, 1013..1159		

Seq. No.	45080	Seq. ID	OJ000251_09.0406.C23
Gene No.	95237	Strand	-
Start	5097	End	13047
Name	OJ000251_09.0406.C23.o4.tw	Method	TBLASTX:Wheat
Start	2051	End	2455
GI	none	Score	335
Exons	2051..2455, 2197..2439		

Seq. No.	45080	Seq. ID	OJ000251_09.0406.C23
Gene No.	95237	Strand	-
Start	5097	End	13047
Name	OJ000251_09.0406.C23.o6.tm	Method	TBLASTX:Maize
Start	2329	End	2534
GI	none	Score	187
Exons	2329..2475, 2330..2506, 2330..2506, 2376..2534		

Seq. No.	45080	Seq. ID	OJ000251_09.0406.C23
Gene No.	95237	Strand	-
Start	5097	End	13047
Name	OJ000251_09.0406.C23.o1.tw	Method	TBLASTX:Wheat
Start	2698	End	3154
GI	none	Score	474
Exons	2698..3153, 2699..3154		

Seq. No.	45080	Seq. ID	OJ000251_09.0406.C23
Gene No.	95237	Strand	-
Start	5097	End	13047
Name	OJ000251_09.0406.C23.o3.ts	Method	TBLASTX:Soybean
Start	2738	End	3103
GI	none	Score	138
Exons	2738..2962, 2966..3103		

Seq. No.	45080	Seq. ID	OJ000251_09.0406.C23
Gene No.	95237	Strand	-
Start	5097	End	13047
Name	OJ000251_09.0406.C23.o1.tm	Method	TBLASTX:Maize
Start	2828	End	3184
GI	none	Score	361
Exons	2828..3184, 2869..3174		

Seq. No.	45080	Seq. ID	OJ000251_09.0406.C23
Gene No.	95237	Strand	-
Start	5097	End	13047
Name	OJ000251_09.0406.C23.o2.tm	Method	TBLASTX:Maize
Start	3212	End	3595
GI	none	Score	322
Exons	3212..3595, 3316..3594		

Seq. No.	45080	Seq. ID	OJ000251_09.0406.C23
Gene No.	95237	Strand	-
Start	5097	End	13047
Name	OJ000251_09.0406.C23.o2.tw	Method	TBLASTX:Wheat
Start	3269	End	3693
GI	none	Score	427
Exons	3269..3691, 3313..3693		

Seq. No.	45080	Seq. ID	OJ000251_09.0406.C23
Gene No.	95237	Strand	-
Start	5097	End	13047
Name	OJ000251_09.0406.C23.o1.ts	Method	TBLASTX:Soybean
Start	3347	End	3721
GI	none	Score	296
Exons	3347..3721, 3364..3507, 3380..3661, 3544..3714		

Seq. No.	45080	Seq. ID	OJ000251_09.0406.C23
Gene No.	95237	Strand	-
Start	5097	End	13047
Name	OJ000251_09.0406.C23.o5.tw	Method	TBLASTX:Wheat
Start	3698	End	3982
GI	none	Score	271
Exons	3698..3979, 3710..3805, 3887..3982		

Seq. No.	45080	Seq. ID	OJ000251_09.0406.C23
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Gene No.	95237	Strand	-
Start	5097	End	13047
Name	OJ000251_09.0406.C23.o2.ts	Method	TBLASTX:Soybean
Start	3974	End	4362
GI	none	Score	76
Exons	3974..4078, 3982..4068, 4114..4362, 4118..4360		

Seq. No.	45080	Seq. ID	OJ000251_09.0406.C23
Gene No.	95237	Strand	-
Start	5097	End	13047
Name	OJ000251_09.0406.C23.o3.tw	Method	TBLASTX:Wheat
Start	3983	End	4414
GI	none	Score	393
Exons	3983..4414, 3988..4329		

Seq. No.	45080	Seq. ID	OJ000251_09.0406.C23
Gene No.	95237	Strand	-
Start	5097	End	13047
Name	OJ000251_09.0406.C23.o5.tm	Method	TBLASTX:Maize
Start	4037	End	4309
GI	none	Score	133
Exons	4037..4207, 4211..4309		

Seq. No.	45080	Seq. ID	OJ000251_09.0406.C23
Gene No.	95237	Strand	-
Start	5097	End	13047
Name	OJ000251_09.0406.C23.o3.tm	Method	TBLASTX:Maize
Start	4499	End	4723
GI	none	Score	139
Exons	4499..4642, 4501..4641, 4621..4722, 4622..4723		

Seq. No.	45080	Seq. ID	OJ000251_09.0406.C23
Gene No.	95237	Strand	-
Start	5097	End	13047
Name	OJ000251_09.0406.C23.o6.tw	Method	TBLASTX:Wheat
Start	4526	End	4777
GI	none	Score	164
Exons	4526..4705, 4730..4777		

Seq. No.	45080	Seq. ID	OJ000251_09.0406.C23
Gene No.	95237	Strand	-
Start	5097	End	13047
Name	OJ000251_09.0406.C23.o3.gs	Method	GENSCAN
Start	5097	End	13047
GI	none	Score	.75
Exons	5097..5548, 5611..5715, 5788..5977, 6052..6239, 6317..6544, 6575..6672, 6749..7086, 7125..7229, 7444..7524, 8656..8725, 9195..9382, 9687..10298, 11317..11426, 12011..12275, 12928..13047		

Seq. No.	45080	Seq. ID	OJ000251_09.0406.C23
Gene No.	95237	Strand	-
Start	5097	End	13047
Name	OJ000251_09.0406.C23.o2.np	Method	AAT/NAP
Start	5109	End	9384
GI	6691716	Score	1285
Exons	5109..5548, 5611..5723, 5874..5977, 6052..6239, 6317..6496,		

GI Descrip. 6573..6672, 6749..6923, 7115..7241, 9352..9384  
(AP000492) hypothetical protein [Oryza sativa]  
gi|6691717|dbj|BAA89397.1| (AP000570) hypothetical protein  
[Oryza sativa]

Seq. No.	45080	Seq. ID	OJ000251_09.0406.C23
Gene No.	95237	Strand	-
Start	5097	End	13047
Name	OJ000251_09.0406.C23.o3.np	Method	AAT/NAP
Start	7673	End	11384
GI	4680186	Score	304
Exons	7673..7775, 8431..8723, 9227..9377, 11331..11384		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	45080	Seq. ID	OJ000251_09.0406.C23
Gene No.	95237	Strand	-
Start	5097	End	13047
Name	OJ000251_09.0406.C23.o4.np	Method	AAT/NAP
Start	8444	End	10328
GI	130007	Score	199
Exons	8444..8504, 9678..10328		
GI Descrip.	ERYTHROAGGLUTINATING PHYTOHEMAGGLUTININ PRECURSOR (PHA-E) gi 81880 pir  A22826 phytohemagglutinin precursor, erythroagglutinating - kidney bean gi 169337 gb AAA33759.1  (K03288) phytohemagglutinin prepeptide [Phaseolus vulgaris] gi 758251 emb CAA26256.1  (X02408) erythroagglutinating phytohemagglutinin [Phaseolus vulgaris]		

Seq. No.	45081	Seq. ID	OJ000251_09.0406.C24
Gene No.	95238	Strand	+
Start	2116	End	2549
Name	OJ000251_09.0406.C24.o1.gp	Method	AAT/GAP
Start	2116	End	2549
GI	287149	Score	808
Exons	2116..2549		
GI Descrip.	6041757/gb AC011806.1 AC011806 1.0e-38 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence		

Seq. No.	45082	Seq. ID	OJ000251_09.0406.C25
Gene No.	95239	Strand	-
Start	2942	End	10287
Name	OJ000251_09.0406.C25.o1.gs	Method	GENSCAN
Start	2942	End	10287
GI	none	Score	.54
Exons	2942..3677, 4378..4606, 4735..4858, 6213..6307, 6677..6704, 7427..7577, 7673..7703, 9933..10041, 10237..10287		

Seq. No.	45082	Seq. ID	OJ000251_09.0406.C25
Gene No.	95239	Strand	-
Start	2942	End	10287
Name	OJ000251_09.0406.C25.o1.np	Method	AAT/NAP
Start	3179	End	5190
GI	6006372	Score	170
Exons	3179..3414, 5160..5190		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		



Seq. No.	45083	Seq. ID	OJ000251_09.0406.C26
Gene No.	95240	Strand	+
Start	253	End	5506
Name	OJ000251_09.0406.C26.o1.gs	Method	GENSCAN
Start	253	End	4922
GI	none	Score	.42
Exons	253..399, 768..1311, 1456..1693, 2553..2694, 2897..2960, 3335..3532, 3623..3962, 4018..4168, 4183..4241, 4281..4407, 4576..4702, 4829..4922		

Seq. No.	45083	Seq. ID	OJ000251_09.0406.C26
Gene No.	95240	Strand	+
Start	253	End	5506
Name	OJ000251_09.0406.C26.o1.np	Method	AAT/NAP
Start	599	End	5506
GI	3777527	Score	969
Exons	599..1505, 1589..1877, 2210..2313, 2380..2655, 2900..4175, 4334..4862, 4962..5051, 5466..5506		
GI Descrip.	(AF053008) gag-pol polyprotein [Glycine max]		

Seq. No.	45083	Seq. ID	OJ000251_09.0406.C26
Gene No.	95240	Strand	+
Start	253	End	5506
Name	OJ000251_09.0406.C26.o1.tw	Method	TBLASTX:Wheat
Start	3291	End	3848
GI	none	Score	114
Exons	3291..3500, 3561..3848, 3669..3842, 3674..3847		

Seq. No.	45083	Seq. ID	OJ000251_09.0406.C26
Gene No.	95240	Strand	+
Start	253	End	5506
Name	OJ000251_09.0406.C26.o1.tm	Method	TBLASTX:Maize
Start	3516	End	4143
GI	none	Score	86
Exons	3516..3581, 3521..3583, 3582..4004, 3668..4003, 4012..4143		

Seq. No.	45083	Seq. ID	OJ000251_09.0406.C26
Gene No.	95240	Strand	+
Start	253	End	5506
Name	OJ000251_09.0406.C26.o2.ts	Method	TBLASTX:Soybean
Start	3690	End	4143
GI	none	Score	213
Exons	3690..4001, 3707..3913, 4012..4143		

Seq. No.	45083	Seq. ID	OJ000251_09.0406.C26
Gene No.	95240	Strand	+
Start	253	End	5506
Name	OJ000251_09.0406.C26.o1.tc	Method	TBLASTX:Cress
Start	3707	End	4142
GI	none	Score	166
Exons	3707..3793, 3708..3998, 4005..4142, 4006..4137		

Seq. No.	45083	Seq. ID	OJ000251_09.0406.C26
Gene No.	95240	Strand	+
Start	253	End	5506
Name	OJ000251_09.0406.C26.o1.ts	Method	TBLASTX:Soybean
Start	4530	End	4859

GI 5509260  
Exons 4530..4859, 4586..4843  
GI Descrip. -

Score 316

Seq. No. 45083 Seq. ID OJ000251\_09.0406.C26  
Gene No. 95240 Strand +  
Start 253 End 5506  
Name OJ000251\_09.0406.C26.o2.tw Method TBLASTX:Wheat  
Start 4586 End 4859  
GI none Score 79  
Exons 4586..4675, 4587..4676, 4656..4859, 4718..4840

Seq. No. 45083 Seq. ID OJ000251\_09.0406.C26  
Gene No. 95240 Strand +  
Start 253 End 5506  
Name OJ000251\_09.0406.C26.o2.tm Method TBLASTX:Maize  
Start 4596 End 4862  
GI none Score 225  
Exons 4596..4862, 4596..4853, 4616..4861

Seq. No. 45084 Seq. ID OJ000251\_09.0406.C27  
Gene No. 95241 Strand +  
Start 90 End 1771  
Name OJ000251\_09.0406.C27.o1.np Method AAT/NAP  
Start 90 End 1771  
GI 6539588 Score 155  
Exons 90..420, 1743..1771  
GI Descrip. (AP000837) hypothetical protein [Oryza sativa]

Seq. No. 45084 Seq. ID OJ000251\_09.0406.C27  
Gene No. 95241 Strand +  
Start 90 End 1771  
Name OJ000251\_09.0406.C27.o1.gs Method GENSCAN  
Start 183 End 390  
GI none Score .5  
Exons 183..390

Seq. No. 45084 Seq. ID OJ000251\_09.0406.C27  
Gene No. 95242 Strand +  
Start 3027 End 4243  
Name OJ000251\_09.0406.C27.o3.gs Method GENSCAN  
Start 3027 End 4243  
GI none Score .6  
Exons 3027..3130, 3306..4243

Seq. No. 45084 Seq. ID OJ000251\_09.0406.C27  
Gene No. 95243 Strand -  
Start 779 End 1376  
Name OJ000251\_09.0406.C27.o2.gs Method GENSCAN  
Start 779 End 1376  
GI none Score .68  
Exons 779..1179, 1232..1376

Seq. No. 45085 Seq. ID OJ000251\_09.0406.C28  
Gene No. 95244 Strand -  
Start 264 End 1272  
Name OJ000251\_09.0406.C28.o1.gs Method GENSCAN

Start	264	End	1272
GI	none	Score	.74
Exons	264..411, 432..604, 1253..1272		

Seq. No.	45086	Seq. ID	OJ000301_03.0404.C1
Gene No.	95245	Strand	-
Start	140	End	1128
Name	OJ000301_03.0404.C1.o1.np	Method	AAT/NAP
Start	140	End	1128
GI	5042454	Score	198
Exons	140..483, 1039..1128		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	45086	Seq. ID	OJ000301_03.0404.C1
Gene No.	95245	Strand	-
Start	140	End	1128
Name	OJ000301_03.0404.C1.o1.gs	Method	GENSCAN
Start	247	End	1119
GI	none	Score	.75
Exons	247..349, 367..398, 463..510, 1117..1119		

Seq. No.	45087	Seq. ID	OJ000301_03.0404.C2
Gene No.	95246	Strand	-
Start	1	End	6240
Name	OJ000301_03.0404.C2.o1.np	Method	AAT/NAP
Start	1	End	5025
GI	5932553	Score	658
Exons	1..213, 1848..1889, 1981..2032, 2321..2394, 3549..3598, 3667..3748, 3958..4007, 4086..4128, 4209..4289, 4377..4422, 4515..4561, 4646..4711, 4791..4857, 4940..5025		
GI Descrip.	(AC009465) putative kinase [Arabidopsis thaliana]		

Seq. No.	45087	Seq. ID	OJ000301_03.0404.C2
Gene No.	95246	Strand	-
Start	1	End	6240
Name	OJ000301_03.0404.C2.o1.gp	Method	AAT/GAP
Start	200	End	681
GI	none	Score	861
Exons	200..681		

Seq. No.	45087	Seq. ID	OJ000301_03.0404.C2
Gene No.	95246	Strand	-
Start	1	End	6240
Name	OJ000301_03.0404.C2.o1.gs	Method	GENSCAN
Start	208	End	6240
GI	none	Score	.82
Exons	208..1168, 1242..1889, 3549..3598, 4086..4128, 4209..4355, 4377..4422, 4940..5049, 5506..5834, 5981..6240		

Seq. No.	45087	Seq. ID	OJ000301_03.0404.C2
Gene No.	95246	Strand	-
Start	1	End	6240
Name	OJ000301_03.0404.C2.o1.tm	Method	TBLASTX:Maize
Start	493	End	1265
GI	none	Score	323
Exons	493..549, 501..557, 568..966, 572..1000, 573..968, 978..1145, 992..1144, 1130..1168, 1143..1169, 1242..1265, 1243..1263		

Seq. No.	45087	Seq. ID	OJ000301_03.0404.C2
Gene No.	95246	Strand	-
Start	1	End	6240
Name	OJ000301_03.0404.C2.o2.gp	Method	AAT/GAP
Start	705	End	1159
GI	2443068	Score	837
Exons	705..1159		

Seq. No.	45087	Seq. ID	OJ000301_03.0404.C2
Gene No.	95246	Strand	-
Start	1	End	6240
Name	OJ000301_03.0404.C2.o2.tm	Method	TBLASTX:Maize
Start	1231	End	1508
GI	none	Score	113
Exons	1231..1353, 1267..1389, 1343..1438, 1354..1506, 1357..1503, 1377..1508		

Seq. No.	45087	Seq. ID	OJ000301_03.0404.C2
Gene No.	95246	Strand	-
Start	1	End	6240
Name	OJ000301_03.0404.C2.o2.ts	Method	TBLASTX:Soybean
Start	1860	End	4009
GI	none	Score	61
Exons	1860..1889, 1975..2031, 1982..2032, 2320..2394, 2324..2395, 3544..3600, 3549..3599, 3665..3757, 3674..3757, 3955..4008, 3956..4009		

Seq. No.	45087	Seq. ID	OJ000301_03.0404.C2
Gene No.	95246	Strand	-
Start	1	End	6240
Name	OJ000301_03.0404.C2.o1.tw	Method	TBLASTX:Wheat
Start	3552	End	4549
GI	none	Score	79
Exons	3552..3599, 3665..3754, 3665..3757, 3955..4005, 4078..4134, 4209..4322, 4210..4278, 4514..4549		

Seq. No.	45087	Seq. ID	OJ000301_03.0404.C2
Gene No.	95246	Strand	-
Start	1	End	6240
Name	OJ000301_03.0404.C2.o3.tm	Method	TBLASTX:Maize
Start	3552	End	4708
GI	none	Score	84
Exons	3552..3599, 3661..3750, 3665..3748, 3665..3757, 3666..3758, 3955..4005, 4078..4134, 4209..4322, 4210..4278, 4514..4564, 4515..4562, 4646..4708, 4650..4706		

Seq. No.	45087	Seq. ID	OJ000301_03.0404.C2
Gene No.	95246	Strand	-
Start	1	End	6240
Name	OJ000301_03.0404.C2.o1.tc	Method	TBLASTX:Cress
Start	3665	End	5028
GI	none	Score	70
Exons	3665..3748, 3665..3748, 3672..3752, 3673..3753, 3955..4008, 4078..4134, 4209..4322, 4514..4564, 4515..4562, 4640..4720, 4758..4859, 4927..5028, 4934..5026		

Seq. No.	45087	Seq. ID	OJ000301_03.0404.C2
Gene No.	95246	Strand	-
Start	1	End	6240
Name	OJ000301_03.0404.C2.o1.ts	Method	TBLASTX:Soybean
Start	4096	End	5071
GI	none	Score	48
Exons	4096..4134, 4209..4280, 4209..4292, 4359..4421, 4375..4425, 4514..4564, 4514..4555, 4644..4712, 4646..4720, 4785..4859, 4819..4875, 4927..5040, 4934..5071		

Seq. No.	45087	Seq. ID	OJ000301_03.0404.C2
Gene No.	95246	Strand	-
Start	1	End	6240
Name	OJ000301_03.0404.C2.o3.gp	Method	AAT/GAP
Start	5087	End	5791
GI	uC-osroM202022b08b1	Score	708
Exons	5087..5170, 5506..5791		
GI Descrip.	'4314356/gb AAD15567  5.0e-15 (AC006340) putative anthocyanidin-3-glucoside rhamnosyltransferase [Arabidopsis thaliana]'		

Seq. No.	45088	Seq. ID	OJ000301_03.0404.C3
Gene No.	95247	Strand	+
Start	3272	End	8003
Name	OJ000301_03.0404.C3.o1.gs	Method	GENSCAN
Start	3272	End	8003
GI	none	Score	.59
Exons	3272..3679, 3766..3903, 4529..4734, 5010..5025, 5119..6022, 6112..6507, 6558..6875, 7198..8003		

Seq. No.	45088	Seq. ID	OJ000301_03.0404.C3
Gene No.	95248	Strand	-
Start	8655	End	19891
Name	OJ000301_03.0404.C3.o2.gs	Method	GENSCAN
Start	8655	End	19891
GI	none	Score	.48
Exons	8655..8972, 9026..13166, 13175..13469, 13578..13788, 13881..14135, 14164..14741, 14943..15144, 16022..16078, 16711..16804, 16913..17086, 17372..17463, 17783..17892, 19110..19185, 19281..19373, 19453..19891		

Seq. No.	45088	Seq. ID	OJ000301_03.0404.C3
Gene No.	95248	Strand	-
Start	8655	End	19891
Name	OJ000301_03.0404.C3.o1.np	Method	AAT/NAP
Start	8658	End	12915
GI	7489805	Score	3038
Exons	8658..12502, 12832..12915		
GI Descrip.	polyprotein - maize retrotransposon Cinfu-1 gi 4206306 gb AAD11615.1  (AF049110) prpol [Zea mays]		

Seq. No.	45088	Seq. ID	OJ000301_03.0404.C3
Gene No.	95248	Strand	-
Start	8655	End	19891
Name	OJ000301_03.0404.C3.o3.ts	Method	TBLASTX:Soybean
Start	9233	End	9592
GI	none	Score	62

Exons 9233..9457, 9240..9479, 9464..9592, 9465..9578

Seq. No.	45088	Seq. ID	OJ000301_03.0404.C3
Gene No.	95248	Strand	-
Start	8655	End	19891
Name	OJ000301_03.0404.C3.o4.tm	Method	TBLASTX:Maize
Start	9248	End	9610
GI	none	Score	229
Exons	9248..9610, 9249..9518		

Seq. No.	45088	Seq. ID	OJ000301_03.0404.C3
Gene No.	95248	Strand	-
Start	8655	End	19891
Name	OJ000301_03.0404.C3.o5.tw	Method	TBLASTX:Wheat
Start	9380	End	9769
GI	none	Score	236
Exons	9380..9769		

Seq. No.	45088	Seq. ID	OJ000301_03.0404.C3
Gene No.	95248	Strand	-
Start	8655	End	19891
Name	OJ000301_03.0404.C3.o5.tm	Method	TBLASTX:Maize
Start	9611	End	9877
GI	none	Score	87
Exons	9611..9877, 9612..9770		

Seq. No.	45088	Seq. ID	OJ000301_03.0404.C3
Gene No.	95248	Strand	-
Start	8655	End	19891
Name	OJ000301_03.0404.C3.o3.tw	Method	TBLASTX:Wheat
Start	10079	End	10511
GI	none	Score	109
Exons	10079..10510, 10080..10253, 10296..10511		

Seq. No.	45088	Seq. ID	OJ000301_03.0404.C3
Gene No.	95248	Strand	-
Start	8655	End	19891
Name	OJ000301_03.0404.C3.o4.ts	Method	TBLASTX:Soybean
Start	10154	End	10513
GI	none	Score	87
Exons	10154..10513, 10155..10502		

Seq. No.	45088	Seq. ID	OJ000301_03.0404.C3
Gene No.	95248	Strand	-
Start	8655	End	19891
Name	OJ000301_03.0404.C3.o8.tw	Method	TBLASTX:Wheat
Start	10511	End	10720
GI	none	Score	70
Exons	10511..10702, 10515..10697, 10571..10720		

Seq. No.	45088	Seq. ID	OJ000301_03.0404.C3
Gene No.	95248	Strand	-
Start	8655	End	19891
Name	OJ000301_03.0404.C3.o1.ts	Method	TBLASTX:Soybean
Start	10697	End	11161
GI	none	Score	87
Exons	10697..11161, 11004..11111		

Seq. No.	45088	Seq. ID	OJ000301_03.0404.C3
Gene No.	95248	Strand	-
Start	8655	End	19891
Name	OJ000301_03.0404.C3.o2.tw	Method	TBLASTX:Wheat
Start	10787	End	11206
GI	none	Score	197
Exons	10787..11206, 10893..11150		

Seq. No.	45088	Seq. ID	OJ000301_03.0404.C3
Gene No.	95248	Strand	-
Start	8655	End	19891
Name	OJ000301_03.0404.C3.o3.tm	Method	TBLASTX:Maize
Start	10880	End	11263
GI	none	Score	183
Exons	10880..11263, 10893..11150, 10928..11239		

Seq. No.	45088	Seq. ID	OJ000301_03.0404.C3
Gene No.	95248	Strand	-
Start	8655	End	19891
Name	OJ000301_03.0404.C3.o2.tm	Method	TBLASTX:Maize
Start	11291	End	11648
GI	none	Score	202
Exons	11291..11647, 11292..11648		

Seq. No.	45088	Seq. ID	OJ000301_03.0404.C3
Gene No.	95248	Strand	-
Start	8655	End	19891
Name	OJ000301_03.0404.C3.o1.tw	Method	TBLASTX:Wheat
Start	11321	End	11776
GI	none	Score	211
Exons	11321..11776, 11322..11564, 11357..11752		

Seq. No.	45088	Seq. ID	OJ000301_03.0404.C3
Gene No.	95248	Strand	-
Start	8655	End	19891
Name	OJ000301_03.0404.C3.o6.tw	Method	TBLASTX:Wheat
Start	11981	End	12340
GI	none	Score	102
Exons	11981..12202, 11982..12203, 12209..12340		

Seq. No.	45088	Seq. ID	OJ000301_03.0404.C3
Gene No.	95248	Strand	-
Start	8655	End	19891
Name	OJ000301_03.0404.C3.o7.tw	Method	TBLASTX:Wheat
Start	13186	End	13476
GI	none	Score	188
Exons	13186..13476		

Seq. No.	45088	Seq. ID	OJ000301_03.0404.C3
Gene No.	95248	Strand	-
Start	8655	End	19891
Name	OJ000301_03.0404.C3.o1.gp	Method	AAT/GAP
Start	15515	End	19571
GI	13905_1.R1084	Score	1998
Exons	15515..15627, 15816..16078, 16711..16804, 16913..17086, 17372..17463, 17783..17892, 19110..19184, 19281..19373,		

19453..19571  
GI Descrip. '170031 1.0e-105 (M10594) nodulin 35 [Glycine max]'

Seq. No.	45088	Seq. ID	OJ000301_03.0404.C3
Gene No.	95248	Strand	-
Start	8655	End	19891
Name	OJ000301_03.0404.C3.o2.ts	Method	TBLASTX:Soybean
Start	15979	End	19624
GI	none	Score	98
Exons	15979..16080, 15992..16081, 15993..16079, 15997..16086, 16723..16806, 16724..16807, 16885..17088, 16909..17046, 16910..17089, 17350..17469, 17371..17466, 17783..17893, 17787..17894, 19102..19233, 19109..19186, 19278..19373, 19291..19365, 19450..19569, 19451..19624		

Seq. No.	45088	Seq. ID	OJ000301_03.0404.C3
Gene No.	95248	Strand	-
Start	8655	End	19891
Name	OJ000301_03.0404.C3.o1.tm	Method	TBLASTX:Maize
Start	15989	End	19758
GI	none	Score	93
Exons	15989..16021, 16017..16079, 16019..16087, 16024..16080, 16723..16806, 16724..16807, 16724..16810, 16729..16812, 16906..17046, 16910..17053, 16912..17052, 17050..17088, 17051..17089, 17369..17467, 17371..17466, 17371..17469, 17784..17894, 17784..17903, 19102..19197, 19106..19186, 19115..19201, 19117..19188, 19260..19373, 19272..19373, 19450..19671, 19451..19672, 19720..19758		

Seq. No.	45088	Seq. ID	OJ000301_03.0404.C3
Gene No.	95248	Strand	-
Start	8655	End	19891
Name	OJ000301_03.0404.C3.o4.tw	Method	TBLASTX:Wheat
Start	15993	End	17098
GI	none	Score	123
Exons	15993..16079, 15995..16087, 15997..16080, 16711..16806, 16712..16807, 16712..16810, 16910..17035, 16910..16954, 16912..17046, 17011..17091, 17036..17098		

Seq. No.	45088	Seq. ID	OJ000301_03.0404.C3
Gene No.	95248	Strand	-
Start	8655	End	19891
Name	OJ000301_03.0404.C3.o1.tc	Method	TBLASTX:Cress
Start	15995	End	19627
GI	none	Score	83
Exons	15995..16081, 15996..16079, 16705..16806, 16706..16807, 16910..17089, 16912..17094, 16912..17088, 17371..17469, 17783..17893, 17787..17894, 19102..19194, 19109..19189, 19273..19365, 19278..19373, 19450..19569, 19451..19555, 19586..19627		

Seq. No.	45088	Seq. ID	OJ000301_03.0404.C3
Gene No.	95248	Strand	-
Start	8655	End	19891
Name	OJ000301_03.0404.C3.o3.np	Method	AAT/NAP
Start	15998	End	19662
GI	6175090	Score	866



Exons 15998..16078, 16711..16804, 16913..17086, 17372..17463,  
17783..17892, 19110..19185, 19281..19373, 19453..19662  
GI Descrip. URICASE (URATE OXIDASE) (NODULIN 35 HOMOLOG)  
gi|2208944|emb|CAA72005.1| (Y11120) nodulin-35 homologue  
[Arabidopsis thaliana]

Seq. No.	45089	Seq. ID	OJ000301_03.0404.C4
Gene No.	95249	Strand	-
Start	765	End	1125
Name	OJ000301_03.0404.C4.o1.gs	Method	GENSCAN
Start	765	End	1125
GI	none	Score	.75
Exons	765..880, 1071..1125		

Seq. No.	45090	Seq. ID	OJ000301_03.0404.C5
Gene No.	95250	Strand	+
Start	7537	End	15917
Name	OJ000301_03.0404.C5.o3.gs	Method	GENSCAN
Start	7537	End	15917
GI	none	Score	.73
Exons	7537..7627, 7653..7864, 8571..8747, 9881..10041, 10350..10589, 10693..10774, 11213..11272, 11948..13591, 13691..13792, 14771..14846, 15558..15634, 15900..15917		

Seq. No.	45090	Seq. ID	OJ000301_03.0404.C5
Gene No.	95250	Strand	+
Start	7537	End	15917
Name	OJ000301_03.0404.C5.o2.np	Method	AAT/NAP
Start	9938	End	15861
GI	5306274	Score	600
Exons	9938..10032, 10350..10474, 10662..10774, 11087..11128, 11213..11272, 11948..12026, 12180..12533, 12897..13175, 13263..13451, 13479..13591, 13691..13799, 14808..14914, 15005..15130, 15304..15364, 15776..15861		
GI Descrip.	(AC006233) unknown protein [Arabidopsis thaliana]		

Seq. No.	45090	Seq. ID	OJ000301_03.0404.C5
Gene No.	95250	Strand	+
Start	7537	End	15917
Name	OJ000301_03.0404.C5.o2.gp	Method	AAT/GAP
Start	14747	End	15527
GI	uC-osflM202083a09b1	Score	961
Exons	14747..14914, 15005..15130, 15304..15527		
GI Descrip.	'5306274/gb AAD42006.1 AC006233_17 4.0e-36 (AC006233) unknown protein [Arabidopsis thaliana]'		

Seq. No.	45090	Seq. ID	OJ000301_03.0404.C5
Gene No.	95251	Strand	-
Start	158	End	3059
Name	OJ000301_03.0404.C5.o1.gs	Method	GENSCAN
Start	158	End	3059
GI	none	Score	.66
Exons	158..472, 1401..1507, 2298..2495, 2729..3059		

Seq. No.	45090	Seq. ID	OJ000301_03.0404.C5
Gene No.	95252	Strand	-
Start	3715	End	5164

Name	OJ000301_03.0404.C5.o1.np	Method	AAT/NAP
Start	3715	End	5132
GI	4314356	Score	832
Exons	3715..5132		
GI Descrip.	(AC006340) putative anthocyanidin-3-glucoside rhamnosyltransferase [Arabidopsis thaliana]		

Seq. No.	45090	Seq. ID	OJ000301_03.0404.C5
Gene No.	95252	Strand	-
Start	3715	End	5164
Name	OJ000301_03.0404.C5.o1.gp	Method	AAT/GAP
Start	4627	End	5164
GI	4715255	Score	956
Exons	4627..5164		
GI Descrip.	4314356/gb AAD15567  5.0e-15 (AC006340) putative anthocyanidin-3-glucoside rhamnosyltransferase [Arabidopsis thaliana]		

Seq. No.	45090	Seq. ID	OJ000301_03.0404.C5
Gene No.	95253	Strand	-
Start	16457	End	16995
Name	OJ000301_03.0404.C5.o4.tm	Method	TBLASTX:Maize
Start	2206	End	2350
GI	none	Score	36
Exons	2206..2304, 2207..2299, 2281..2349, 2294..2350		

Seq. No.	45090	Seq. ID	OJ000301_03.0404.C5
Gene No.	95253	Strand	-
Start	16457	End	16995
Name	OJ000301_03.0404.C5.o4.tc	Method	TBLASTX:Cress
Start	2209	End	2454
GI	none	Score	84
Exons	2209..2304, 2281..2349, 2294..2350, 2407..2454		

Seq. No.	45090	Seq. ID	OJ000301_03.0404.C5
Gene No.	95253	Strand	-
Start	16457	End	16995
Name	OJ000301_03.0404.C5.o1.ts	Method	TBLASTX:Soybean
Start	3682	End	4770
GI	none	Score	39
Exons	3682..4122, 3965..4075, 4165..4299, 4175..4297, 4280..4318, 4348..4419, 4351..4500, 4534..4599, 4645..4770		

Seq. No.	45090	Seq. ID	OJ000301_03.0404.C5
Gene No.	95253	Strand	-
Start	16457	End	16995
Name	OJ000301_03.0404.C5.o2.tc	Method	TBLASTX:Cress
Start	3835	End	4311
GI	none	Score	85
Exons	3835..4122, 3950..4075, 4165..4311		

Seq. No.	45090	Seq. ID	OJ000301_03.0404.C5
Gene No.	95253	Strand	-
Start	16457	End	16995
Name	OJ000301_03.0404.C5.o3.tm	Method	TBLASTX:Maize
Start	3922	End	4305
GI	none	Score	104

Exons 3922..4122, 3938..4075, 3940..4080, 4165..4305, 4199..4300

Seq. No. 45090 Seq. ID OJ000301\_03.0404.C5  
Gene No. 95253 Strand -  
Start 16457 End 16995  
Name OJ000301\_03.0404.C5.o1.tw Method TBLASTX:Wheat  
Start 4066 End 4449  
GI none Score 78  
Exons 4066..4122, 4174..4305, 4175..4303, 4327..4449

Seq. No. 45090 Seq. ID OJ000301\_03.0404.C5  
Gene No. 95253 Strand -  
Start 16457 End 16995  
Name OJ000301\_03.0404.C5.o1.tm Method TBLASTX:Maize  
Start 4681 End 5076  
GI none Score 76  
Exons 4681..5076, 4682..4783, 4868..5074, 4873..5076

Seq. No. 45090 Seq. ID OJ000301\_03.0404.C5  
Gene No. 95253 Strand -  
Start 16457 End 16995  
Name OJ000301\_03.0404.C5.o4.ts Method TBLASTX:Soybean  
Start 4855 End 5118  
GI none Score 120  
Exons 4855..5118, 4868..5086

Seq. No. 45090 Seq. ID OJ000301\_03.0404.C5  
Gene No. 95253 Strand -  
Start 16457 End 16995  
Name OJ000301\_03.0404.C5.o2.ts Method TBLASTX:Soybean  
Start 13049 End 15438  
GI none Score 52  
Exons 13049..13156, 13268..13408, 13300..13407, 13325..13591,  
13431..13553, 13433..13606, 13688..13795, 13690..13785,  
13691..13792, 14771..14917, 14824..14913, 14993..15130,  
14998..15129, 15002..15130, 15003..15131, 15004..15132,  
15287..15358, 15298..15438

Seq. No. 45090 Seq. ID OJ000301\_03.0404.C5  
Gene No. 95253 Strand -  
Start 16457 End 16995  
Name OJ000301\_03.0404.C5.o2.tm Method TBLASTX:Maize  
Start 13334 End 15453  
GI none Score 64  
Exons 13334..13426, 13425..13577, 13430..13591, 13433..13591,  
13686..13760, 13688..13795, 13689..13799, 13690..13785,  
14771..14917, 14771..14923, 14993..15130, 14997..15131,  
14998..15132, 14998..15129, 15298..15453

Seq. No. 45090 Seq. ID OJ000301\_03.0404.C5  
Gene No. 95253 Strand -  
Start 16457 End 16995  
Name OJ000301\_03.0404.C5.o3.tc Method TBLASTX:Cress  
Start 13478 End 13795  
GI none Score 161  
Exons 13478..13588, 13481..13606, 13482..13589, 13483..13590,  
13691..13795, 13693..13785

Seq. No.	45090	Seq. ID	OJ000301_03.0404.C5
Gene No.	95253	Strand	-
Start	16457	End	16995
Name	OJ000301_03.0404.C5.o1.tc	Method	TBLASTX:Cress
Start	14819	End	15360
GI	none	Score	139
Exons	14819..14917, 14824..14919, 14998..15129, 14999..15130, 15298..15360		

Seq. No.	45090	Seq. ID	OJ000301_03.0404.C5
Gene No.	95253	Strand	-
Start	16457	End	16995
Name	OJ000301_03.0404.C5.o4.gs	Method	GENSCAN
Start	16457	End	16936
GI	none	Score	.99
Exons	16457..16936		

Seq. No.	45090	Seq. ID	OJ000301_03.0404.C5
Gene No.	95253	Strand	-
Start	16457	End	16995
Name	OJ000301_03.0404.C5.o3.np	Method	AAT/NAP
Start	16460	End	16995
GI	4510376	Score	478
Exons	16460..16995		
GI Descrip.	(AC007017) unknown protein [Arabidopsis thaliana]		

Seq. No.	45090	Seq. ID	OJ000301_03.0404.C5
Gene No.	95253	Strand	-
Start	16457	End	16995
Name	OJ000301_03.0404.C5.o3.ts	Method	TBLASTX:Soybean
Start	16460	End	16993
GI	none	Score	66
Exons	16460..16564, 16464..16565, 16577..16702, 16581..16643, 16766..16993		

Seq. No.	45091	Seq. ID	OJ000301_03.0404.C6
Gene No.	95254	Strand	-
Start	1	End	4341
Name	OJ000301_03.0404.C6.o1.np	Method	AAT/NAP
Start	1	End	317
GI	6671940	Score	186
Exons	1..317		
GI Descrip.	(AC016795) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45091	Seq. ID	OJ000301_03.0404.C6
Gene No.	95254	Strand	-
Start	1	End	4341
Name	OJ000301_03.0404.C6.o1.gs	Method	GENSCAN
Start	9	End	4341
GI	none	Score	.5
Exons	9..466, 3233..3390, 4252..4341		

Seq. No.	45091	Seq. ID	OJ000301_03.0404.C6
Gene No.	95254	Strand	-
Start	1	End	4341
Name	OJ000301_03.0404.C6.o1.tw	Method	TBLASTX:Wheat

Start	75	End	326
GI	none	Score	65
Exons	75..125, 88..141, 138..164, 183..293, 187..288, 207..326		
Seq. No.	45091	Seq. ID	OJ000301_03.0404.C6
Gene No.	95254	Strand	-
Start	1	End	4341
Name	OJ000301_03.0404.C6.ol.tc	Method	TBLASTX:Cress
Start	81	End	293
GI	none	Score	80
Exons	81..158, 88..159, 184..288, 186..293		
Seq. No.	45091	Seq. ID	OJ000301_03.0404.C6
Gene No.	95254	Strand	-
Start	1	End	4341
Name	OJ000301_03.0404.C6.ol.ts	Method	TBLASTX:Soybean
Start	81	End	293
GI	none	Score	117
Exons	81..125, 138..293, 142..288, 207..293		
Seq. No.	45092	Seq. ID	OJ000301_03.0404.C7
Gene No.	95255	Strand	+
Start	1895	End	2382
Name	OJ000301_03.0404.C7.ol.gp	Method	AAT/GAP
Start	1895	End	2382
GI	63060_1.R1084	Score	862
Exons	1895..2382		
GI Descrip.	'5803242/dbj AP000399.1 AP000399 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04'		
Seq. No.	45092	Seq. ID	OJ000301_03.0404.C7
Gene No.	95256	Strand	-
Start	925	End	2896
Name	OJ000301_03.0404.C7.ol.np	Method	AAT/NAP
Start	925	End	2896
GI	7486005	Score	311
Exons	925..995, 2422..2481, 2587..2896		
GI Descrip.	hypothetical protein F2206.180 - Arabidopsis thaliana gi 4886283 emb CAB43436.1  (AL050300) putative protein [Arabidopsis thaliana]		
Seq. No.	45092	Seq. ID	OJ000301_03.0404.C7
Gene No.	95256	Strand	-
Start	925	End	2896
Name	OJ000301_03.0404.C7.ol.gs	Method	GENSCAN
Start	1934	End	2896
GI	none	Score	.54
Exons	1934..2896		
Seq. No.	45092	Seq. ID	OJ000301_03.0404.C7
Gene No.	95256	Strand	-
Start	925	End	2896
Name	OJ000301_03.0404.C7.ol.tm	Method	TBLASTX:Maize
Start	2640	End	2885
GI	none	Score	212
Exons	2640..2885, 2690..2884		

Seq. No.	45092	Seq. ID	OJ000301_03.0404.C7
Gene No.	95256	Strand	-
Start	925	End	2896
Name	OJ000301_03.0404.C7.o1.ts	Method	TBLASTX:Soybean
Start	2667	End	2882
GI	none	Score	138
Exons	2667..2882, 2690..2881		

Seq. No.	45092	Seq. ID	OJ000301_03.0404.C7
Gene No.	95256	Strand	-
Start	925	End	2896
Name	OJ000301_03.0404.C7.o1.tc	Method	TBLASTX:Cress
Start	2676	End	2878
GI	none	Score	143
Exons	2676..2876, 2690..2878		

Seq. No.	45093	Seq. ID	OJ000301_03.0404.C8
Gene No.	95257	Strand	+
Start	3059	End	6914
Name	OJ000301_03.0404.C8.o1.np	Method	AAT/NAP
Start	3059	End	6793
GI	6815109	Score	166
Exons	3059..3110, 4262..4444, 6755..6793		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	45093	Seq. ID	OJ000301_03.0404.C8
Gene No.	95257	Strand	+
Start	3059	End	6914
Name	OJ000301_03.0404.C8.o2.np	Method	AAT/NAP
Start	4242	End	6914
GI	6815109	Score	174
Exons	4242..4471, 6880..6914		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	45094	Seq. ID	OJ000301_03.0404.C9
Gene No.	95258	Strand	+
Start	951	End	7102
Name	OJ000301_03.0404.C9.o1.np	Method	AAT/NAP
Start	951	End	7102
GI	7228457	Score	9386
Exons	951..1317, 1379..3314, 3378..4212, 4335..5486, 5553..7102		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	45094	Seq. ID	OJ000301_03.0404.C9
Gene No.	95259	Strand	+
Start	7267	End	7730
Name	OJ000301_03.0404.C9.o1.gp	Method	AAT/GAP
Start	7267	End	7730
GI	2428323	Score	846
Exons	7267..7730		
GI Descrip.	5803242/dbj AP000399.1 AP000399 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04		

Seq. No.	45094	Seq. ID	OJ000301_03.0404.C9
Gene No.	95260	Strand	-

Start	7741	End	11039
Name	OJ000301_03.0404.C9.o2.np	Method	AAT/NAP
Start	7741	End	11039
GI	5803259	Score	5143
Exons	7741..9411, 9454..9682, 9778..11039		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	45094	Seq. ID	OJ000301_03.0404.C9
Gene No.	95261	Strand	-
Start	11420	End	11535
Name	OJ000301_03.0404.C9.o6.tw	Method	TBLASTX:Wheat
Start	1605	End	1997
GI	none	Score	58
Exons	1605..1652, 1659..1757, 1664..1756, 1724..1963, 1740..1997		

Seq. No.	45094	Seq. ID	OJ000301_03.0404.C9
Gene No.	95261	Strand	-
Start	11420	End	11535
Name	OJ000301_03.0404.C9.o4.tm	Method	TBLASTX:Maize
Start	1610	End	1895
GI	none	Score	197
Exons	1610..1894, 1647..1895		

Seq. No.	45094	Seq. ID	OJ000301_03.0404.C9
Gene No.	95261	Strand	-
Start	11420	End	11535
Name	OJ000301_03.0404.C9.o3.tw	Method	TBLASTX:Wheat
Start	2735	End	3221
GI	none	Score	401
Exons	2735..2908, 2736..3221, 2930..3190, 3000..3194		

Seq. No.	45094	Seq. ID	OJ000301_03.0404.C9
Gene No.	95261	Strand	-
Start	11420	End	11535
Name	OJ000301_03.0404.C9.o1.tw	Method	TBLASTX:Wheat
Start	3386	End	3848
GI	none	Score	576
Exons	3386..3841, 3387..3848, 3387..3842		

Seq. No.	45094	Seq. ID	OJ000301_03.0404.C9
Gene No.	95261	Strand	-
Start	11420	End	11535
Name	OJ000301_03.0404.C9.o3.ts	Method	TBLASTX:Soybean
Start	3426	End	3791
GI	none	Score	117
Exons	3426..3650, 3657..3791		

Seq. No.	45094	Seq. ID	OJ000301_03.0404.C9
Gene No.	95261	Strand	-
Start	11420	End	11535
Name	OJ000301_03.0404.C9.o1.tm	Method	TBLASTX:Maize
Start	3516	End	3872
GI	none	Score	381
Exons	3516..3872, 3551..3862, 3567..3872		

Seq. No.	45094	Seq. ID	OJ000301_03.0404.C9
Gene No.	95261	Strand	-

Start 11420  
 Name OJ000301\_03.0404.C9.o3.tm  
 Start 3899  
 GI none  
 Exons 3899..4264, 3900..4283

End 11535  
 Method TBLASTX:Maize  
 End 4283  
 Score 358

Seq. No. 45094  
 Gene No. 95261  
 Start 11420  
 Name OJ000301\_03.0404.C9.o2.tw  
 Start 3956  
 GI none  
 Exons 3956..4369, 3957..4376, 8394..8492

Seq. ID OJ000301\_03.0404.C9  
 Strand -  
 End 11535  
 Method TBLASTX:Wheat  
 End 8492  
 Score 484

Seq. No. 45094  
 Gene No. 95261  
 Start 11420  
 Name OJ000301\_03.0404.C9.o1.ts  
 Start 4035  
 GI none  
 Exons 4035..4406, 4052..4195

Seq. ID OJ000301\_03.0404.C9  
 Strand -  
 End 11535  
 Method TBLASTX:Soybean  
 End 4406  
 Score 277

Seq. No. 45094  
 Gene No. 95261  
 Start 11420  
 Name OJ000301\_03.0404.C9.o5.tw  
 Start 5031  
 GI none  
 Exons 5031..5282, 5031..5228, 5096..5272, 5316..5465, 5325..5462, 5327..5464

Seq. ID OJ000301\_03.0404.C9  
 Strand -  
 End 11535  
 Method TBLASTX:Wheat  
 End 5465  
 Score 236

Seq. No. 45094  
 Gene No. 95261  
 Start 11420  
 Name OJ000301\_03.0404.C9.o2.ts  
 Start 5154  
 GI 5666795  
 Exons 5154..5252, 5328..5465, 5520..5720  
 GI Descrip. 4206306 2.0e-10 (AF049110) prpol [Zea mays]

Seq. ID OJ000301\_03.0404.C9  
 Strand -  
 End 11535  
 Method TBLASTX:Soybean  
 End 5720  
 Score 68

Seq. No. 45094  
 Gene No. 95261  
 Start 11420  
 Name OJ000301\_03.0404.C9.o8.tw  
 Start 5468  
 GI none  
 Exons 5468..5644, 5499..5669, 5520..5780

Seq. ID OJ000301\_03.0404.C9  
 Strand -  
 End 11535  
 Method TBLASTX:Wheat  
 End 5780  
 Score 192

Seq. No. 45094  
 Gene No. 95261  
 Start 11420  
 Name OJ000301\_03.0404.C9.o2.tm  
 Start 5973  
 GI none  
 Exons 5973..6296, 6002..6283

Seq. ID OJ000301\_03.0404.C9  
 Strand -  
 End 11535  
 Method TBLASTX:Maize  
 End 6296  
 Score 364

Seq. No. 45094

Seq. ID OJ000301\_03.0404.C9



Gene No.	95261	Strand	-
Start	11420	End	11535
Name	OJ000301_03.0404.C9.o4.tw	Method	TBLASTX:Wheat
Start	6110	End	6491
GI	none	Score	374
Exons	6110..6166, 6111..6491, 6207..6452, 6212..6460		

Seq. No.	45094	Seq. ID	OJ000301_03.0404.C9
Gene No.	95261	Strand	-
Start	11420	End	11535
Name	OJ000301_03.0404.C9.o7.tw	Method	TBLASTX:Wheat
Start	6492	End	7093
GI	none	Score	188
Exons	6492..6710, 6496..6567, 6497..6595, 6630..6689, 6632..6706, 6701..6787, 6709..6774, 6967..7089, 6968..7093		

Seq. No.	45094	Seq. ID	OJ000301_03.0404.C9
Gene No.	95261	Strand	-
Start	11420	End	11535
Name	OJ000301_03.0404.C9.o3.gs	Method	GENSCAN
Start	11420	End	11535
GI	none	Score	.58
Exons	11420..11535		

Seq. No.	45095	Seq. ID	OJ000301_03.0404.C10
Gene No.	95262	Strand	+
Start	1	End	154
Name	OJ000301_03.0404.C10.o1.np	Method	AAT/NAP
Start	1	End	154
GI	6721562	Score	83
Exons	1..154		
GI Descrip.	(AP001073) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa] gi 6815087 dbj BAA90373.1  (AP001081) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa]		

Seq. No.	45095	Seq. ID	OJ000301_03.0404.C10
Gene No.	95263	Strand	+
Start	3317	End	3907
Name	OJ000301_03.0404.C10.o3.np	Method	AAT/NAP
Start	3317	End	3907
GI	3790573	Score	176
Exons	3317..3606, 3650..3907		
GI Descrip.	(AF078824) RING-H2 finger protein RHA3a [Arabidopsis thaliana] gi 4914367 gb AAD32903.1 AC007584_1 (AC007584) putative RING zinc finger protein [Arabidopsis thaliana]		

Seq. No.	45095	Seq. ID	OJ000301_03.0404.C10
Gene No.	95264	Strand	+
Start	5024	End	6693
Name	OJ000301_03.0404.C10.o2.gs	Method	GENSCAN
Start	5024	End	6693
GI	none	Score	.69
Exons	5024..5158, 5996..6025, 6168..6240, 6614..6693		

Seq. No.	45095	Seq. ID	OJ000301_03.0404.C10
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Gene No.	95265	Strand	-
Start	1	End	464
Name	OJ000301_03.0404.C10.o2.np	Method	AAT/NAP
Start	1	End	464
GI	5922623	Score	69
Exons	1..51, 358..464		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016856 dbj BAA85199.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	45095	Seq. ID	OJ000301_03.0404.C10
Gene No.	95266	Strand	
Start	3637	End	3814
Name	OJ000301_03.0404.C10.o1.tm	Method	TBLASTX:Maize
Start	3637	End	3814
GI	none	Score	189
Exons	3637..3792, 3638..3814		

Seq. No.	45095	Seq. ID	OJ000301_03.0404.C10
Gene No.	95266	Strand	
Start	3637	End	3814
Name	OJ000301_03.0404.C10.o1.ts	Method	TBLASTX:Soybean
Start	3644	End	3787
GI	4298640	Score	191
Exons	3644..3787, 3655..3783		
GI Descrip.	3790575 3.0e-26 (AF078825) RING-H2 finger protein RHA3b [Arabidopsis thaliana]		

Seq. No.	45095	Seq. ID	OJ000301_03.0404.C10
Gene No.	95266	Strand	
Start	3637	End	3814
Name	OJ000301_03.0404.C10.o1.tc	Method	TBLASTX:Cress
Start	3649	End	3790
GI	none	Score	200
Exons	3649..3777, 3650..3790		

Seq. No.	45096	Seq. ID	OJ000301_03.0404.C11
Gene No.	95267	Strand	+
Start	263	End	2048
Name	OJ000301_03.0404.C11.o1.gp	Method	AAT/GAP
Start	263	End	2048
GI	15881_1.R1084	Score	1214
Exons	263..390, 1274..1343, 1469..1862, 1977..2048		
GI Descrip.	'1703108/sp P53492 ACT2_ARATH 0.0e+00 ACTIN 2/7 >gi_2129525_pir_S71210_actin 2 - Arabidopsis thaliana >gi_2129528_pir_S68107 actin 7 - Arabidopsis thaliana >gi_1049307 (U37281) actin-2 [Arabidopsis thaliana] >gi_1943863 (U27811) actin7 [Arabidopsis thaliana]'		

Seq. No.	45096	Seq. ID	OJ000301_03.0404.C11
Gene No.	95267	Strand	+
Start	263	End	2048
Name	OJ000301_03.0404.C11.o1.np	Method	AAT/NAP
Start	1280	End	2048
GI	3420239	Score	797
Exons	1280..1343, 1469..1862, 1977..2048		
GI Descrip.	(AF059484) actin [Gossypium hirsutum]		

Seq. No.	45096	Seq. ID	OJ000301_03.0404.C11
Gene No.	95267	Strand	+
Start	263	End	2048
Name	OJ000301_03.0404.C11.ol.gs	Method	GENSCAN
Start	1287	End	1862
GI	none	Score	.72
Exons	1287..1343, 1469..1862		

Seq. No.	45096	Seq. ID	OJ000301_03.0404.C11
Gene No.	95267	Strand	+
Start	263	End	2048
Name	OJ000301_03.0404.C11.ol.ts	Method	TBLASTX:Soybean
Start	1289	End	2048
GI	none	Score	85
Exons	1289..1342, 1296..1343, 1461..1721, 1461..1736, 1462..1866, 1468..1866, 1469..1873, 1975..2001, 1976..2002, 2001..2048, 2002..2046		

Seq. No.	45096	Seq. ID	OJ000301_03.0404.C11
Gene No.	95267	Strand	+
Start	263	End	2048
Name	OJ000301_03.0404.C11.ol.tc	Method	TBLASTX:Cress
Start	1295	End	2048
GI	none	Score	85
Exons	1295..1339, 1296..1343, 1297..1350, 1298..1345, 1455..1490, 1462..1866, 1462..1866, 1469..1873, 1975..2001, 1976..2002, 2001..2048, 2002..2046		

Seq. No.	45096	Seq. ID	OJ000301_03.0404.C11
Gene No.	95267	Strand	+
Start	263	End	2048
Name	OJ000301_03.0404.C11.ol.tm	Method	TBLASTX:Maize
Start	1295	End	2046
GI	none	Score	85
Exons	1295..1342, 1296..1343, 1297..1344, 1298..1345, 1455..1496, 1461..1730, 1462..1866, 1468..1866, 1469..1873, 1975..2001, 1975..2001, 1976..2002, 2002..2046		

Seq. No.	45096	Seq. ID	OJ000301_03.0404.C11
Gene No.	95267	Strand	+
Start	263	End	2048
Name	OJ000301_03.0404.C11.ol.tw	Method	TBLASTX:Wheat
Start	1462	End	1873
GI	none	Score	139
Exons	1462..1866, 1467..1727,, 1469..1873		

Seq. No.	45097	Seq. ID	OJ000301_03.0404.C12
Gene No.	95268	Strand	+
Start	1	End	1334
Name	OJ000301_03.0404.C12.ol.gp	Method	AAT/GAP
Start	1	End	1334
GI	15881_1.R1084	Score	1556
Exons	1..248, 791..1334		
GI Descrip.	'1703108/sp P53492 ACT2_ARATH 0.0e+00 ACTIN 2/7 >gi_2129525_pir__S71210 actin 2 - Arabidopsis thaliana >gi_2129528_pir__S68107 actin 7 - Arabidopsis thaliana		

>gi\_1049307 (U37281) actin-2 [Arabidopsis thaliana] >gi\_1943863 (U27811) actin7 [Arabidopsis thaliana]'

Seq. No.	45097	Seq. ID	OJ000301_03.0404.C12
Gene No.	95268	Strand	+
Start	1	End	1334
Name	OJ000301_03.0404.C12.o1.np	Method	AAT/NAP
Start	1	End	853
GI	113261	Score	451
Exons	1..248, 791..853		
GI Descrip.	ACTIN 7 gi 71637 pir  ATRZ7 actin 7 - rice gi 20333 emb CAA33872.1  (X15863) actin [Oryza sativa]		

Seq. No.	45097	Seq. ID	OJ000301_03.0404.C12
Gene No.	95268	Strand	+
Start	1	End	1334
Name	OJ000301_03.0404.C12.o1.gs	Method	GENSCAN
Start	33	End	856
GI	none	Score	.94
Exons	33..248, 791..856		

Seq. No.	45097	Seq. ID	OJ000301_03.0404.C12
Gene No.	95269	Strand	+
Start	1926	End	2565
Name	OJ000301_03.0404.C12.o2.gp	Method	AAT/GAP
Start	1863	End	2565
GI	267_4.R1084	Score	1374
Exons	1863..2565		
GI Descrip.	'122085/sp P05203 H3 MAIZE 9.0e-56 HISTONE H3 >gi_81641_pir_S06250 histone H3 - Arabidopsis thaliana >gi_82482_pir_S04099 histone H3 (variant H3R-21) - rice >gi_1362194_pir_S57626 histone H3 - maize >gi_20251_emb_CAA31969 (X13678) histone H3 (AA 1-136) [Oryza sativa] >gi_20253_emb_CAA31970 (X13680) histone H3 (AA 1-136) [Oryza sativa] >gi_168493 (M36658) histone H3 (H3C3) [Zea may'		

Seq. No.	45097	Seq. ID	OJ000301_03.0404.C12
Gene No.	95269	Strand	+
Start	1926	End	2565
Name	OJ000301_03.0404.C12.o2.gs	Method	GENSCAN
Start	1926	End	2336
GI	none	Score	.98
Exons	1926..2336		

Seq. No.	45097	Seq. ID	OJ000301_03.0404.C12
Gene No.	95269	Strand	+
Start	1926	End	2565
Name	OJ000301_03.0404.C12.o2.np	Method	AAT/NAP
Start	1926	End	2333
GI	122085	Score	673
Exons	1926..2333		
GI Descrip.	HISTONE H3 gi 81641 pir  S06250 histone H3 - Arabidopsis thaliana gi 82482 pir  S04099 histone H3 (variant H3R-21) - rice gi 1362194 pir  S57626 histone H3 - maize gi 20251 emb CAA31969  (X13678) histone H3 (AA 1-136) [Oryza sativa] gi 20253 emb CAA31970  (X13680) histone H3 (AA 1-136) [Oryza sativa] gi 168493 (M36658) histone H3 (H3C3) [Zea mays]		

gi|168495 (M13378) h

Seq. No.	45097	Seq. ID	OJ000301_03.0404.C12
Gene No.	95270	Strand	+
Start	2957	End	6482
Name	OJ000301_03.0404.C12.o3.gp	Method	AAT/GAP
Start	2861	End	4612
GI	34788_1.R1084	Score	851
Exons	2861..3191, 3782..3879, 4561..4612		
GI Descrip.	'4097561 3.0e-26 (U64918) ATGP1 [Arabidopsis thaliana]'		

Seq. No.	45097	Seq. ID	OJ000301_03.0404.C12
Gene No.	95270	Strand	+
Start	2957	End	6482
Name	OJ000301_03.0404.C12.o3.gs	Method	GENSCAN
Start	2957	End	6065
GI	none	Score	.83
Exons	2957..3191, 3713..3879, 4561..4674, 5131..5196, 5429..5515, 5955..6065		

Seq. No.	45097	Seq. ID	OJ000301_03.0404.C12
Gene No.	95270	Strand	+
Start	2957	End	6482
Name	OJ000301_03.0404.C12.o3.np	Method	AAT/NAP
Start	2957	End	6039
GI	4097579	Score	619
Exons	2957..3007, 3050..3191, 3782..3879, 4561..4674, 5131..5196, 5429..5515, 5992..6039		
GI Descrip.	(U64922) NTGP1 [Nicotiana tabacum]		

Seq. No.	45097	Seq. ID	OJ000301_03.0404.C12
Gene No.	95270	Strand	+
Start	2957	End	6482
Name	OJ000301_03.0404.C12.o4.gp	Method	AAT/GAP
Start	5436	End	6482
GI	41947_1.R1084	Score	802
Exons	5436..5515, 5992..6079, 6208..6482..		
GI Descrip.	'4097579 4.0e-14 (U64922) NTGP1 [Nicotiana tabacum]'		

Seq. No.	45097	Seq. ID	OJ000301_03.0404.C12
Gene No.	95271	Strand	-
Start	6720	End	7265
Name	OJ000301_03.0404.C12.o2.tc	Method	TBLASTX:Cress
Start	2	End	856
GI	none	Score	66
Exons	2..61, 2..247, 3..257, 778..855, 788..856		

Seq. No.	45097	Seq. ID	OJ000301_03.0404.C12
Gene No.	95271	Strand	-
Start	6720	End	7265
Name	OJ000301_03.0404.C12.o2.tw	Method	TBLASTX:Wheat
Start	2	End	257
GI	none	Score	191
Exons	2..253, 2..247, 3..257, 9..251		

Seq. No.	45097	Seq. ID	OJ000301_03.0404.C12
Gene No.	95271	Strand	-

Start	6720	End	7265
Name	OJ000301_03.0404.C12.o2.ts	Method	TBLASTX:Soybean
Start	2	End	859
GI	none	Score	406
Exons	2..247, 3..257, 778..858, 788..859		

Seq. No.	45097	Seq. ID	OJ000301_03.0404.C12
Gene No.	95271	Strand	-
Start	6720	End	7265
Name	OJ000301_03.0404.C12.o2.tm	Method	TBLASTX:Maize
Start	2	End	883
GI	none	Score	406
Exons	2..247, 3..257, 350..424, 787..855, 788..883		

Seq. No.	45097	Seq. ID	OJ000301_03.0404.C12
Gene No.	95271	Strand	-
Start	6720	End	7265
Name	OJ000301_03.0404.C12.o1.tw	Method	TBLASTX:Wheat
Start	1540	End	2362
GI	none	Score	57
Exons	1540..1611, 1922..2362, 1926..2306		

Seq. No.	45097	Seq. ID	OJ000301_03.0404.C12
Gene No.	95271	Strand	-
Start	6720	End	7265
Name	OJ000301_03.0404.C12.o1.tm	Method	TBLASTX:Maize
Start	1924	End	2359
GI	none	Score	546
Exons	1924..2016, 1925..2359, 1926..2306		

Seq. No.	45097	Seq. ID	OJ000301_03.0404.C12
Gene No.	95271	Strand	-
Start	6720	End	7265
Name	OJ000301_03.0404.C12.o1.tc	Method	TBLASTX:Cress
Start	1925	End	2351
GI	none	Score	546
Exons	1925..2338, 1926..2306, 2043..2351		

Seq. No.	45097	Seq. ID	OJ000301_03.0404.C12
Gene No.	95271	Strand	-
Start	6720	End	7265
Name	OJ000301_03.0404.C12.o1.ts	Method	TBLASTX:Soybean
Start	1925	End	2335
GI	none	Score	546
Exons	1925..2335, 1926..2306		

Seq. No.	45097	Seq. ID	OJ000301_03.0404.C12
Gene No.	95271	Strand	-
Start	6720	End	7265
Name	OJ000301_03.0404.C12.o3.tm	Method	TBLASTX:Maize
Start	2821	End	3190
GI	none	Score	35
Exons	2821..2862, 2941..2988, 2956..2988, 3043..3189, 3044..3190		

Seq. No.	45097	Seq. ID	OJ000301_03.0404.C12
Gene No.	95271	Strand	-
Start	6720	End	7265

Name	OJ000301_03.0404.C12.o3.tw	Method	TBLASTX:Wheat
Start	2941	End	3889
GI	none	Score	61
Exons	2941..2988, 2950..2988, 2954..2989, 3046..3189, 3047..3190, 3776..3889, 3780..3881, 3781..3882		

Seq. No.	45097	Seq. ID	OJ000301_03.0404.C12
Gene No.	95271	Strand	-
Start	6720	End	7265
Name	OJ000301_03.0404.C12.o3.tc	Method	TBLASTX:Cress
Start	2957	End	6064
GI	none	Score	44
Exons	2957..2986, 3046..3189, 3047..3190, 3777..3887, 3780..3881, 3781..3882, 4558..4596, 4642..4674, 5109..5204, 5131..5196, 5429..5518, 5431..5514, 5989..6045, 5990..6064, 5991..6035		

Seq. No.	45097	Seq. ID	OJ000301_03.0404.C12
Gene No.	95271	Strand	-
Start	6720	End	7265
Name	OJ000301_03.0404.C12.o3.ts	Method	TBLASTX:Soybean
Start	2957	End	6045
GI	none	Score	44
Exons	2957..2986, 3046..3189, 3047..3190, 3777..3881, 3780..3881, 3781..3882, 3784..3882, 4558..4596, 4642..4674, 5106..5204, 5129..5194, 5131..5196, 5428..5511, 5429..5518, 5430..5510, 5431..5514, 5989..6045		

Seq. No.	45097	Seq. ID	OJ000301_03.0404.C12
Gene No.	95271	Strand	-
Start	6720	End	7265
Name	OJ000301_03.0404.C12.o4.gs	Method	GENSCAN
Start	6720	End	7265
GI	none	Score	.6
Exons	6720..6730, 7091..7265		

Seq. No.	45098	Seq. ID	OJ000301_03.0404.C13
Gene No.	95272	Strand	+
Start	1	End	3440
Name	OJ000301_03.0404.C13.o1.gp	Method	AAT/GAP
Start	1	End	3440
GI	29_1.R1084	Score	3538
Exons	1..224, 329..376, 469..543, 632..693, 802..868, 1273..1386, 1469..1555, 1683..1753, 1830..1895, 2053..2139, 2239..2314, 2433..3219, 3306..3440		
GI Descrip.	'3913640/sp O64421 F16Q_ORYSA 0.0e+00 FRUCTOSE-1,6-BISPHOSPHATASE, CYTOSOLIC (D-FRUCTOSE-1,6-BISPHOSPHATE 1-PHOSPHOHYDROLASE) (FBPASE) >gi_3041775_dbj_BAA25422_ (AB007193) fructose-1,6-bisphosphatase [Oryza sativa]'		

Seq. No.	45098	Seq. ID	OJ000301_03.0404.C13
Gene No.	95272	Strand	+
Start	1	End	3440
Name	OJ000301_03.0404.C13.o1.gs	Method	GENSCAN
Start	66	End	2540
GI	none	Score	.65
Exons	66..224, 329..436, 469..543, 632..693, 802..868, 1273..1386,		

1777..1895, 2053..2314, 2433..2540

Seq. No. 45098 Seq. ID OJ000301\_03.0404.C13  
Gene No. 95272 Strand +  
Start 1 End 3440  
Name OJ000301\_03.0404.C13.o1.np Method AAT/NAP  
Start 66 End 2537  
GI 3913640 Score 1423  
Exons 66..224, 329..376, 469..543, 632..693, 802..868, 1273..1386,  
1469..1555, 1683..1753, 1830..1895, 2053..2139, 2239..2314,  
2433..2537  
GI Descrip. FRUCTOSE-1,6-BISPHOSPHATASE, CYTOSOLIC  
(D-FRUCTOSE-1,6-BISPHOSPHATE 1-PHOSPHOHYDROLASE) (FBPASE)  
gi|3041775|dbj|BAA25422| (AB007193) fructose-1,6-bisphosphatase  
[Oryza sativa]

Seq. No. 45098 Seq. ID OJ000301\_03.0404.C13  
Gene No. 95273 Strand -  
Start 2921 End 4333  
Name OJ000301\_03.0404.C13.o2.tm Method TBLASTX:Maize  
Start 39 End 2550  
GI none Score 260  
Exons 39..224, 89..223, 194..238, 326..376, 326..376, 466..543,  
467..544, 632..694, 632..688, 633..695, 799..873, 800..871,  
1226..1384, 1272..1385, 1272..1388, 1273..1392, 1456..1554,  
1469..1564, 1469..1555, 1473..1568, 1677..1757, 1680..1754,  
1682..1759, 1682..1762, 1822..1893, 1827..1895, 1827..1895,  
2035..2139, 2045..2140, 2050..2151, 2120..2320, 2242..2313,  
2244..2315, 2430..2537, 2432..2539, 2432..2536, 2452..2550

Seq. No. 45098 Seq. ID OJ000301\_03.0404.C13  
Gene No. 95273 Strand -  
Start 2921 End 4333  
Name OJ000301\_03.0404.C13.o2.tc Method TBLASTX:Cress  
Start 63 End 1362  
GI none Score 234  
Exons 63..224, 89..223, 326..376, 466..543, 507..542, 633..695,  
635..694, 800..871, 802..873, 1273..1362

Seq. No. 45098 Seq. ID OJ000301\_03.0404.C13  
Gene No. 95273 Strand -  
Start 2921 End 4333  
Name OJ000301\_03.0404.C13.o2.ts Method TBLASTX:Soybean  
Start 69 End 2542  
GI none Score 217  
Exons 69..224, 69..224, 89..232, 326..376, 466..543, 632..694,  
800..871, 802..873, 1207..1386, 1272..1388, 1273..1392,  
1456..1554, 1458..1586, 1469..1564, 1677..1757, 1680..1745,  
1682..1762, 1831..1893, 1833..1895, 2029..2139, 2045..2140,  
2240..2320, 2248..2307, 2430..2540, 2432..2542

Seq. No. 45098 Seq. ID OJ000301\_03.0404.C13  
Gene No. 95273 Strand -  
Start 2921 End 4333  
Name OJ000301\_03.0404.C13.o2.tw Method TBLASTX:Wheat  
Start 1736 End 2558  
GI none Score 106



Exons 1736..1762, 1828..1893, 1833..1895, 2020..2127, 2029..2139,  
2045..2140, 2230..2307, 2239..2313, 2240..2320, 2430..2534,  
2432..2551, 2436..2558, 2437..2538

Seq. No. 45098 Seq. ID OJ000301\_03.0404.C13  
Gene No. 95273 Strand -  
Start 2921 End 4333  
Name OJ000301\_03.0404.C13.o3.tc Method TBLASTX:Cress  
Start 1828 End 2539  
GI none Score 99  
Exons 1828..1893, 1833..1895, 2048..2137, 2050..2133, 2050..2139,  
2051..2140, 2238..2288, 2238..2300, 2239..2304, 2240..2320,  
2430..2537, 2432..2539

Seq. No. 45098 Seq. ID OJ000301\_03.0404.C13  
Gene No. 95273 Strand -  
Start 2921 End 4333  
Name OJ000301\_03.0404.C13.o2.gs Method GENSCAN  
Start 2921 End 4333  
GI none Score .87  
Exons 2921..2939, 3138..3219, 3306..3426, 3519..3584, 3670..3777,  
3867..3932, 4032..4060, 4207..4333

Seq. No. 45098 Seq. ID OJ000301\_03.0404.C13  
Gene No. 95273 Strand -  
Start 2921 End 4333  
Name OJ000301\_03.0404.C13.o2.np Method AAT/NAP  
Start 2999 End 4333  
GI 4033424 Score 699  
Exons 2999..3035, 3138..3219, 3306..3426, 3519..3584, 3670..3777,  
3867..3932, 4032..4060, 4207..4333  
GI Descrip. SOLUBLE INORGANIC PYROPHOSPHATASE (PYROPHOSPHATE  
PHOSPHO-HYDROLASE) (PPASE) gi|2668746 (AF034947) inorganic  
pyrophosphatase [Zea mays]

Seq. No. 45098 Seq. ID OJ000301\_03.0404.C13  
Gene No. 95273 Strand -  
Start 2921 End 4333  
Name OJ000301\_03.0404.C13.o1.tc Method TBLASTX:Cress  
Start 3008 End 4312  
GI none Score 86  
Exons 3008..3052, 3137..3217, 3303..3428, 3305..3430, 3307..3417,  
3307..3453, 3308..3463, 3514..3588, 3519..3587, 3519..3629,  
3520..3588, 3647..3778, 3668..3778, 3670..3780, 3688..3786,  
3864..3932, 3865..3933, 4029..4061, 4030..4062, 4205..4312,  
4221..4295

Seq. No. 45098 Seq. ID OJ000301\_03.0404.C13  
Gene No. 95273 Strand -  
Start 2921 End 4333  
Name OJ000301\_03.0404.C13.o1.tm Method TBLASTX:Maize  
Start 3014 End 4306  
GI none Score 39  
Exons 3014..3052, 3137..3217, 3138..3170, 3139..3216, 3300..3386,  
3303..3428, 3307..3453, 3308..3463, 3517..3588, 3519..3629,  
3523..3588, 3668..3778, 3668..3778, 3670..3792, 3688..3786,  
3863..3931, 3864..3932, 3865..3933, 4029..4061, 4030..4062,

4205..4279, 4205..4306, 4221..4289

Seq. No.	45098	Seq. ID	OJ000301_03.0404.C13
Gene No.	95273	Strand	-
Start	2921	End	4333
Name	OJ000301_03.0404.C13.ol.tw	Method	TBLASTX:Wheat
Start	3014	End	3751
GI	none	Score	80
Exons	3014..3052, 3137..3217, 3142..3219, 3142..3234, 3306..3428, 3307..3453, 3308..3463, 3517..3588, 3519..3587, 3519..3590, 3520..3588, 3666..3713, 3668..3751, 3688..3750		

Seq. No.	45098	Seq. ID	OJ000301_03.0404.C13
Gene No.	95273	Strand	-
Start	2921	End	4333
Name	OJ000301_03.0404.C13.ol.ts	Method	TBLASTX:Soybean
Start	3137	End	4286
GI	none	Score	54
Exons	3137..3217, 3160..3219, 3307..3417, 3307..3453, 3308..3463, 3517..3588, 3519..3590, 3520..3588, 3627..3761, 3668..3775, 3688..3786, 3864..3932, 3868..3933, 4205..4285, 4221..4286		

Seq. No.	45099	Seq. ID	OJ000301_03.0404.C14
Gene No.	95274	Strand	-
Start	218	End	529
Name	OJ000301_03.0404.C14.ol.gs	Method	GENSCAN
Start	218	End	529
GI	none	Score	.73
Exons	218..529		

Seq. No.	45100	Seq. ID	OJ000301_02.0404.C1
Gene No.	95275	Strand	-
Start	462	End	2270
Name	OJ000301_02.0404.C1.ol.gp	Method	AAT/GAP
Start	462	End	2270
GI	5978_2.R1084	Score	1409
Exons	462..1018, 2098..2270		
GI Descrip.	'1173027/sp P46290 RL31_NICGU 2.0e-43 60S RIBOSOMAL PROTEIN L31 >gi_915313 (U23784) ribosomal protein L31 [Nicotiana glutinosa]'		

Seq. No.	45100	Seq. ID	OJ000301_02.0404.C1
Gene No.	95275	Strand	-
Start	462	End	2270
Name	OJ000301_02.0404.C1.ol.tm	Method	TBLASTX:Maize
Start	620	End	2190
GI	none	Score	42
Exons	620..667, 624..668, 717..782, 730..1020, 730..1017, 743..1054, 791..1024, 2098..2190, 2098..2190		

Seq. No.	45100	Seq. ID	OJ000301_02.0404.C1
Gene No.	95275	Strand	-
Start	462	End	2270
Name	OJ000301_02.0404.C1.ol.ts	Method	TBLASTX:Soybean
Start	718	End	2159
GI	none	Score	225
Exons	718..1017, 743..1018, 818..1018, 856..1029, 2100..2159, 2101..2154		

Seq. No.	45100	Seq. ID	OJ000301_02.0404.C1
Gene No.	95275	Strand	-
Start	462	End	2270
Name	OJ000301_02.0404.C1.o1.tw	Method	TBLASTX:Wheat
Start	732	End	2184
GI	none	Score	303
Exons	732..848, 734..1018, 736..1017, 895..1029, 899..1018, 2100..2171, 2101..2172, 2104..2184		

Seq. No.	45100	Seq. ID	OJ000301_02.0404.C1
Gene No.	95275	Strand	-
Start	462	End	2270
Name	OJ000301_02.0404.C1.o1.tc	Method	TBLASTX:Cress
Start	736	End	2159
GI	none	Score	166
Exons	736..1017, 736..849, 743..1033, 898..1029, 2103..2159		

Seq. No.	45100	Seq. ID	OJ000301_02.0404.C1
Gene No.	95275	Strand	-
Start	462	End	2270
Name	OJ000301_02.0404.C1.o1.np	Method	AAT/NAP
Start	742	End	2189
GI	1173027	Score	488
Exons	742..1018, 2098..2189		
GI Descrip.	60S RIBOSOMAL PROTEIN L31 gi 915313 (U23784) ribosomal protein L31 [Nicotiana glutinosa]		

Seq. No.	45101	Seq. ID	OJ000301_02.0404.C2
Gene No.	95276	Strand	+
Start	8562	End	14205
Name	OJ000301_02.0404.C2.o4.gs	Method	GENSCAN
Start	8562	End	14205
GI	none	Score	.5
Exons	8562..8658, 8806..9090, 9635..9747, 9969..10245, 11777..11835, 12243..12327, 12465..12515, 12666..12848, 13176..13282, 13523..13754, 14063..14205		

Seq. No.	45101	Seq. ID	OJ000301_02.0404.C2
Gene No.	95277	Strand	-
Start	59	End	783
Name	OJ000301_02.0404.C2.o1.gs	Method	GENSCAN
Start	59	End	649
GI	none	Score	.99
Exons	59..649		

Seq. No.	45101	Seq. ID	OJ000301_02.0404.C2
Gene No.	95277	Strand	-
Start	59	End	783
Name	OJ000301_02.0404.C2.o1.gp	Method	AAT/GAP
Start	202	End	783
GI	none	Score	1080
Exons	202..783		

Seq. No.	45101	Seq. ID	OJ000301_02.0404.C2
Gene No.	95278	Strand	-
Start	5390	End	8398

Name	OJ000301_02.0404.C2.o2.gp	Method	AAT/GAP
Start	5390	End	5825
GI	none	Score	779
Exons	5390..5825		

Seq. No.	45101	Seq. ID	OJ000301_02.0404.C2
Gene No.	95278	Strand	-
Start	5390	End	8398
Name	OJ000301_02.0404.C2.o1.np	Method	AAT/NAP
Start	5449	End	8371
GI	7248409	Score	127
Exons	5449..5677, 8310..8371		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	45101	Seq. ID	OJ000301_02.0404.C2
Gene No.	95278	Strand	-
Start	5390	End	8398
Name	OJ000301_02.0404.C2.o3.gs	Method	GENSCAN
Start	7380	End	8398
GI	none	Score	.79
Exons	7380..7534, 7749..8094, 8099..8256, 8314..8398		

Seq. No.	45101	Seq. ID	OJ000301_02.0404.C2
Gene No.	95279	Strand	-
Start	13750	End	14019
Name	OJ000301_02.0404.C2.o3.gp	Method	AAT/GAP
Start	13750	End	14019
GI	3107716	Score	523
Exons	13750..14019		

Seq. No.	45101	Seq. ID	OJ000301_02.0404.C2
Gene No.	95280	Strand	-
Start	16057	End	16067
Name	OJ000301_02.0404.C2.o1.tm	Method	TBLASTX:Maize
Start	338	End	736
GI	none	Score	76
Exons	338..388, 339..392, 459..650, 464..652, 640..657, 701..736, 705..734		

Seq. No.	45101	Seq. ID	OJ000301_02.0404.C2
Gene No.	95280	Strand	-
Start	16057	End	16067
Name	OJ000301_02.0404.C2.o1.tc	Method	TBLASTX:Cress
Start	359	End	641
GI	none	Score	112
Exons	359..388, 464..640, 468..641		

Seq. No.	45101	Seq. ID	OJ000301_02.0404.C2
Gene No.	95280	Strand	-
Start	16057	End	16067
Name	OJ000301_02.0404.C2.o5.gs	Method	GENSCAN
Start	16057	End	16067
GI	none	Score	.52
Exons	16057..16067		

Seq. No.	45102	Seq. ID	OJ000301_02.0404.C3
Gene No.	95281	Strand	+

Start	556	End	12978
Name	OJ000301_02.0404.C3.o1.gs	Method	GENSCAN
Start	556	End	12978
GI	none	Score	.46
Exons	556..568, 1525..1585, 3112..3182, 4428..4629, 4756..5047, 5165..5265, 5365..5476, 6312..6755, 7034..7405, 7488..7776, 9543..9565, 10051..10189, 10374..10483, 10911..11186, 11294..11360, 12307..12525, 12675..12799, 12898..12978		

Seq. No.	45102	Seq. ID	OJ000301_02.0404.C3
Gene No.	95281	Strand	+
Start	556	End	12978
Name	OJ000301_02.0404.C3.o1.gp	Method	AAT/GAP
Start	4922	End	8133
GI	455_1.R1084	Score	3195
Exons	4922..5047, 6256..6755, 7034..7405, 7488..8133		
GI Descrip.	'399015/sp P31691 ADT_ORYSA 0.0e+00 ADP,ATP CARRIER PROTEIN PRECURSOR (ADP/ATP TRANSLOCASE) (ADENINE NUCLEOTIDE TRANSLOCATOR) (ANT) >gi_218145_dbj_BAA02161_ (D12637) ATP/ADP translocator [Oryza sativa]'		

Seq. No.	45102	Seq. ID	OJ000301_02.0404.C3
Gene No.	95281	Strand	+
Start	556	End	12978
Name	OJ000301_02.0404.C3.o1.np	Method	AAT/NAP
Start	6276	End	7781
GI	399015	Score	1916
Exons	6276..6755, 7034..7405, 7488..7781		
GI Descrip.	ADP,ATP CARRIER PROTEIN PRECURSOR (ADP/ATP TRANSLOCASE) (ADENINE NUCLEOTIDE TRANSLOCATOR) (ANT) gi 218145 dbj BAA02161  (D12637) ATP/ADP translocator [Oryza sativa]		

Seq. No.	45102	Seq. ID	OJ000301_02.0404.C3
Gene No.	95281	Strand	+
Start	556	End	12978
Name	OJ000301_02.0404.C3.o2.gp	Method	AAT/GAP
Start	10642	End	11023
GI	3061148	Score	698
Exons	10642..11023		

Seq. No.	45102	Seq. ID	OJ000301_02.0404.C3
Gene No.	95281	Strand	+
Start	556	End	12978
Name	OJ000301_02.0404.C3.o2.np	Method	AAT/NAP
Start	10934	End	12972
GI	6648200	Score	645
Exons	10934..11186, 11294..11360, 12307..12525, 12675..12799, 12898..12972		
GI Descrip.	(AC013483) putative RHO GDP-dissociation inhibitor 1 [Arabidopsis thaliana]		

Seq. No.	45102	Seq. ID	OJ000301_02.0404.C3
Gene No.	95282	Strand	+
Start	13903	End	22393
Name	OJ000301_02.0404.C3.o2.gs	Method	GENSCAN
Start	13903	End	22393
GI	none	Score	.74

Exons 13903..13966, 14128..14152, 14190..14315, 14687..14838,  
15052..15234, 15270..15411, 16325..16379, 16560..16670,  
16779..16952, 17060..17316, 17429..17600, 18122..18190,  
18270..18386, 18665..18876, 19053..19211, 19285..19484,  
20035..20126, 20336..20600, 22122..22393

Seq. No. 45102 Seq. ID OJ000301\_02.0404.C3  
Gene No. 95282 Strand +  
Start 13903 End 22393  
Name OJ000301\_02.0404.C3.o3.np Method AAT/NAP  
Start 17481 End 20406  
GI 7489668 Score 1801  
Exons 17481..17600, 17988..18026, 18122..18190, 18270..18386,  
18665..18876, 19053..19211, 19285..19484, 19575..19741,  
19821..19917, 20035..20126, 20336..20406  
GI Descrip. fimbrin/plastin-like protein - wheat (fragment)  
gi|1575595|gb|AAC49813.1| (U67717) fimbrin/plastin-like  
[Triticum aestivum]

Seq. No. 45102 Seq. ID OJ000301\_02.0404.C3  
Gene No. 95282 Strand +  
Start 13903 End 22393  
Name OJ000301\_02.0404.C3.o3.gp Method AAT/GAP  
Start 17537 End 19078  
GI uC-osflcyp120c07b1 Score 946  
Exons 17537..17600, 17988..18026, 18122..18190, 18270..18386,  
18665..18876, 19053..19078  
GI Descrip. '1575595 9.0e-89 (U67717) fimbrin/plastin-like [Triticum  
aestivum]'

Seq. No. 45102 Seq. ID OJ000301\_02.0404.C3  
Gene No. 95283 Strand -  
Start 20688 End 21025  
Name OJ000301\_02.0404.C3.o2.tw Method TBLASTX:Wheat  
Start 6251 End 6693  
GI none Score 155  
Exons 6251..6427, 6268..6438, 6269..6436, 6276..6437, 6277..6450,  
6441..6512, 6441..6491, 6446..6577, 6461..6691, 6462..6692,  
6501..6692, 6502..6693

Seq. No. 45102 Seq. ID OJ000301\_02.0404.C3  
Gene No. 95283 Strand -  
Start 20688 End 21025  
Name OJ000301\_02.0404.C3.o1.tm Method TBLASTX:Maize  
Start 6258 End 10697  
GI none Score 230  
Exons 6258..6437, 6270..6458, 6430..6495, 6435..6476, 6474..6755,  
6476..6751, 6485..6757, 6486..6755, 7010..7459, 7022..7405,  
7150..7407, 7191..7454, 7482..7784, 7482..7784, 7486..7794,  
7487..7795, 7781..7810, 7787..7810, 7795..7890, 7797..7889,  
7837..7893, 10611..10697

Seq. No. 45102 Seq. ID OJ000301\_02.0404.C3  
Gene No. 95283 Strand -  
Start 20688 End 21025  
Name OJ000301\_02.0404.C3.o1.ts Method TBLASTX:Soybean  
Start 6276 End 7787

GI	none	Score	61
Exons	6276..6350, 6378..6509, 6464..6508, 6515..6754, 6516..6755, 6528..6755, 6605..6757, 6691..6756, 7019..7405, 7022..7405, 7153..7407, 7200..7418, 7242..7406, 7465..7770, 7482..7784, 7482..7787, 7578..7697		

Seq. No.	45102	Seq. ID	OJ000301_02.0404.C3
Gene No.	95283	Strand	-
Start	20688	End	21025
Name	OJ000301_02.0404.C3.o1.tc	Method	TBLASTX:Cress
Start	6468	End	7784
GI	none	Score	442
Exons	6468..6755, 6473..6751, 6474..6755, 6605..6757, 7019..7231, 7022..7231, 7214..7405, 7237..7401, 7481..7783, 7482..7784, 7485..7784		

Seq. No.	45102	Seq. ID	OJ000301_02.0404.C3
Gene No.	95283	Strand	-
Start	20688	End	21025
Name	OJ000301_02.0404.C3.o1.tw	Method	TBLASTX:Wheat
Start	6714	End	8054
GI	none	Score	75
Exons	6714..6755, 7022..7405, 7031..7447, 7068..7454, 7150..7407, 7179..7460, 7482..7793, 7486..7794, 7487..7795, 7787..7813, 7795..7860, 7855..7917, 7875..7988, 7903..7953, 8004..8054		

Seq. No.	45102	Seq. ID	OJ000301_02.0404.C3
Gene No.	95283	Strand	-
Start	20688	End	21025
Name	OJ000301_02.0404.C3.o4.tc	Method	TBLASTX:Cress
Start	11136	End	12524
GI	none	Score	56
Exons	11136..11186, 11291..11359, 11293..11358, 12287..12406, 12306..12410, 12423..12524, 12440..12523		

Seq. No.	45102	Seq. ID	OJ000301_02.0404.C3
Gene No.	95283	Strand	-
Start	20688	End	21025
Name	OJ000301_02.0404.C3.o3.tm	Method	TBLASTX:Maize
Start	12305	End	12993
GI	none	Score	344
Exons	12305..12523, 12306..12524, 12462..12524, 12660..12794, 12664..12798, 12664..12804, 12726..12809, 12895..12993, 12895..12975, 12896..12982, 12897..12992		

Seq. No.	45102	Seq. ID	OJ000301_02.0404.C3
Gene No.	95283	Strand	-
Start	20688	End	21025
Name	OJ000301_02.0404.C3.o3.tc	Method	TBLASTX:Cress
Start	12673	End	12972
GI	none	Score	114
Exons	12673..12804, 12674..12799, 12895..12972, 12897..12971		

Seq. No.	45102	Seq. ID	OJ000301_02.0404.C3
Gene No.	95283	Strand	-
Start	20688	End	21025
Name	OJ000301_02.0404.C3.o2.tc	Method	TBLASTX:Cress

Start	16571	End	20572
GI	none	Score	118
Exons	16571..16669, 16581..16670, 17138..17314, 17171..17314, 17188..17325, 17421..17600, 17429..17596, 17985..18035, 18119..18187, 18121..18159, 18252..18386, 18263..18400, 18647..18877, 18664..18870, 18725..18880, 18726..18878, 19107..19214, 19108..19224, 19286..19486, 19315..19485, 19577..19741, 19583..19630, 19651..19743, 19818..19913, 19820..19912, 20032..20094, 20034..20129, 20054..20128, 20327..20395, 20335..20388, 20513..20572		

  

Seq. No.	45102	Seq. ID	OJ000301_02.0404.C3
Gene No.	95283	Strand	-
Start	20688	End	21025
Name	OJ000301_02.0404.C3.o4.tm	Method	TBLASTX:Maize
Start	16580	End	16961
GI	none	Score	145
Exons	16580..16669, 16581..16670, 16593..16670, 16776..16805, 16778..16822, 16805..16954, 16806..16961		

  

Seq. No.	45102	Seq. ID	OJ000301_02.0404.C3
Gene No.	95283	Strand	-
Start	20688	End	21025
Name	OJ000301_02.0404.C3.o5.ts	Method	TBLASTX:Soybean
Start	16896	End	17331
GI	none	Score	65
Exons	16896..16961, 17072..17314, 17134..17331		

  

Seq. No.	45102	Seq. ID	OJ000301_02.0404.C3
Gene No.	95283	Strand	-
Start	20688	End	21025
Name	OJ000301_02.0404.C3.o5.tm	Method	TBLASTX:Maize
Start	17131	End	17522
GI	none	Score	147
Exons	17131..17331, 17171..17314, 17421..17522, 17429..17518, 17430..17522		

  

Seq. No.	45102	Seq. ID	OJ000301_02.0404.C3
Gene No.	95283	Strand	-
Start	20688	End	21025
Name	OJ000301_02.0404.C3.o3.ts	Method	TBLASTX:Soybean
Start	17420	End	19167
GI	none	Score	244
Exons	17420..17599, 17427..17600, 17985..18035, 17987..18025, 18119..18190, 18119..18205, 18263..18388, 18267..18386, 18647..18877, 18651..18905, 18658..18867, 18662..18877, 19048..19110, 19107..19166, 19108..19167		

  

Seq. No.	45102	Seq. ID	OJ000301_02.0404.C3
Gene No.	95283	Strand	-
Start	20688	End	21025
Name	OJ000301_02.0404.C3.o2.tm	Method	TBLASTX:Maize
Start	18161	End	20795
GI	none	Score	49
Exons	18161..18190, 18162..18191, 18163..18192, 18263..18388, 18267..18386, 18269..18388, 18647..18877, 18658..18879, 19046..19204, 19047..19205, 19047..19217, 19048..19224,		



19243..19302, 19283..19483, 19284..19484, 19286..19483,  
 19321..19488, 19574..19741, 19574..19741, 19575..19742,  
 19576..19743, 19818..19913, 19819..19872, 19820..19912,  
 20034..20129, 20034..20129, 20036..20131, 20327..20395,  
 20334..20450, 20370..20438, 20435..20644, 20513..20611,  
 20715..20795, 20759..20794

Seq. No.	45102	Seq. ID	OJ000301_02.0404.C3
Gene No.	95283	Strand	-
Start	20688	End	21025
Name	OJ000301_02.0404.C3.o2.ts	Method	TBLASTX:Soybean
Start	19168	End	19757
GI	none	Score	66
Exons	19168..19224, 19176..19217, 19272..19475, 19284..19457, 19286..19483, 19315..19476, 19569..19613, 19574..19651, 19574..19654, 19577..19741, 19607..19741, 19645..19743, 19650..19742, 19662..19757		

Seq. No.	45102	Seq. ID	OJ000301_02.0404.C3
Gene No.	95283	Strand	-
Start	20688	End	21025
Name	OJ000301_02.0404.C3.o4.ts	Method	TBLASTX:Soybean
Start	19814	End	20395
GI	none	Score	80
Exons	19814..19909, 19818..19913, 19820..19912, 20031..20129, 20034..20126, 20054..20131, 20327..20395		

Seq. No.	45102	Seq. ID	OJ000301_02.0404.C3
Gene No.	95283	Strand	-
Start	20688	End	21025
Name	OJ000301_02.0404.C3.o4.gp	Method	AAT/GAP
Start	20688	End	21025
GI	none	Score	485
Exons	20688..21025		

Seq. No.	45103	Seq. ID	OJ000301_02.0404.C4
Gene No.	95284	Strand	+
Start	1	End	15947
Name	OJ000301_02.0404.C4.o3.np	Method	AAT/NAP
Start	1	End	14940
GI	7300213	Score	77
Exons	1..48, 3018..3094, 3230..3328, 5625..5705, 8884..8924, 9340..9383, 14414..14504, 14588..14822, 14852..14940		
GI Descrip.	(AE003716) CG5225 gene product [Drosophila melanogaster]		

Seq. No.	45103	Seq. ID	OJ000301_02.0404.C4
Gene No.	95284	Strand	+
Start	1	End	15947
Name	OJ000301_02.0404.C4.o1.gs	Method	GENSCAN
Start	784	End	2236
GI	none	Score	.74
Exons	784..928, 2181..2236		

Seq. No.	45103	Seq. ID	OJ000301_02.0404.C4
Gene No.	95284	Strand	+
Start	1	End	15947
Name	OJ000301_02.0404.C4.o1.gp	Method	AAT/GAP

Start	1080	End	1546
GI	273.1.R1084	Score	349
Exons	1080..1334, 1507..1546		
GI Descrip.	'417260/sp Q03200 LRP_ORYSA 8.0e-41 LIGHT REGULATED PROTEIN PRECURSOR >gi_422003_pir_S33632_lir1 protein - rice >gi_20263_emb_CAA48706_(X68807) light-regulated gene [Oryza sativa]'		

Seq. No.	45103	Seq. ID	OJ000301_02.0404.C4
Gene No.	95284	Strand	+
Start	1	End	15947
Name	OJ000301_02.0404.C4.o2.gp	Method	AAT/GAP
Start	5519	End	6232
GI	3761509	Score	780
Exons	5519..5705, 6000..6232		

Seq. No.	45103	Seq. ID	OJ000301_02.0404.C4
Gene No.	95284	Strand	+
Start	1	End	15947
Name	OJ000301_02.0404.C4.o1.np	Method	AAT/NAP
Start	5631	End	7281
GI	6002712	Score	578
Exons	5631..5705, 6000..6431, 6575..6829, 6913..7281		
GI Descrip.	(AF133053) S-adenosyl-L-methionine:salicylic acid carboxyl methyltransferase [Clarkia breweri]		

Seq. No.	45103	Seq. ID	OJ000301_02.0404.C4
Gene No.	95284	Strand	+
Start	1	End	15947
Name	OJ000301_02.0404.C4.o3.gs	Method	GENSCAN
Start	5631	End	10359
GI	none	Score	.73
Exons	5631..5705, 6000..6431, 6563..6775, 6913..7241, 8152..8255, 8740..9410, 10315..10359		

Seq. No.	45103	Seq. ID	OJ000301_02.0404.C4
Gene No.	95284	Strand	+
Start	1	End	15947
Name	OJ000301_02.0404.C4.o3.gp	Method	AAT/GAP
Start	7011	End	7590
GI	none	Score	1064
Exons	7011..7590		

Seq. No.	45103	Seq. ID	OJ000301_02.0404.C4
Gene No.	95284	Strand	+
Start	1	End	15947
Name	OJ000301_02.0404.C4.o2.np	Method	AAT/NAP
Start	8849	End	9446
GI	3157923	Score	233
Exons	8849..9446		
GI Descrip.	(AC002131) F12F1.7 [Arabidopsis thaliana]		

Seq. No.	45103	Seq. ID	OJ000301_02.0404.C4
Gene No.	95284	Strand	+
Start	1	End	15947
Name	OJ000301_02.0404.C4.o5.gs	Method	GENSCAN
Start	12980	End	15947

GI	none	Score	.45
Exons	12980..13112, 14497..14582, 14606..14749, 15933..15947		

Seq. No.	45103	Seq. ID	OJ000301_02.0404.C4
Gene No.	95285	Strand	-
Start	9288	End	9520
Name	OJ000301_02.0404.C4.o4.gp	Method	AAT/GAP
Start	9288	End	9520
GI	427535	Score	384
Exons	9288..9520		

Seq. No.	45103	Seq. ID	OJ000301_02.0404.C4
Gene No.	95286	Strand	-
Start	11003	End	11414
Name	OJ000301_02.0404.C4.o1.ts	Method	TBLASTX:Soybean
Start	5631	End	6386
GI	none	Score	70
Exons	5631..5705, 6095..6196, 6099..6140, 6216..6386, 6227..6376		

Seq. No.	45103	Seq. ID	OJ000301_02.0404.C4
Gene No.	95286	Strand	-
Start	11003	End	11414
Name	OJ000301_02.0404.C4.o2.tm	Method	TBLASTX:Maize
Start	5631	End	6431
GI	none	Score	99
Exons	5631..5705, 6095..6160, 6099..6140, 6219..6293, 6224..6304, 6323..6427, 6324..6431		

Seq. No.	45103	Seq. ID	OJ000301_02.0404.C4
Gene No.	95286	Strand	-
Start	11003	End	11414
Name	OJ000301_02.0404.C4.o2.ts	Method	TBLASTX:Soybean
Start	6592	End	6981
GI	none	Score	161
Exons	6592..6747, 6593..6829, 6910..6981		

Seq. No.	45103	Seq. ID	OJ000301_02.0404.C4
Gene No.	95286	Strand	-
Start	11003	End	11414
Name	OJ000301_02.0404.C4.o3.tm	Method	TBLASTX:Maize
Start	6670	End	6841
GI	none	Score	183
Exons	6670..6831, 6671..6841, 6719..6841		

Seq. No.	45103	Seq. ID	OJ000301_02.0404.C4
Gene No.	95286	Strand	-
Start	11003	End	11414
Name	OJ000301_02.0404.C4.o1.tm	Method	TBLASTX:Maize
Start	6915	End	7269
GI	none	Score	152
Exons	6915..7016, 6919..7047, 6919..7080, 7022..7048, 7093..7269, 7101..7262		

Seq. No.	45103	Seq. ID	OJ000301_02.0404.C4
Gene No.	95286	Strand	-
Start	11003	End	11414
Name	OJ000301_02.0404.C4.o4.gs	Method	GENSCAN

Start	11003	End	11414
GI	none	Score	.46
Exons	11003..11063, 11254..11414		

Seq. No.	45104	Seq. ID	OJ000301_02.0404.C5
Gene No.	95287	Strand	+
Start	56	End	6136
Name	OJ000301_02.0404.C5.o1.gs	Method	GENSCAN
Start	56	End	5796
GI	none	Score	.84
Exons	56..112, 210..362, 1113..1579, 1778..1936, 2019..2135, 2267..2418, 3737..3831, 3920..4117, 4397..4826, 4905..4989, 5076..5144, 5346..5525, 5583..5595, 5630..5796		

Seq. No.	45104	Seq. ID	OJ000301_02.0404.C5
Gene No.	95287	Strand	+
Start	56	End	6136
Name	OJ000301_02.0404.C5.o1.np	Method	AAT/NAP
Start	1166	End	6114
GI	7485526	Score	1131
Exons	1166..1579, 2019..2135, 2264..2418, 3737..3855, 3953..4285, 4336..4503, 4573..4826, 4905..4989, 5076..5144, 5346..5595, 5931..6114		

GI Descrip. hypothetical protein F15J5.90 - Arabidopsis thaliana  
gi|5816998|emb|CAB53653.1| (AL110123) putative protein  
[Arabidopsis thaliana] gi|7268605|emb|CAB78814.1| (AL161548)  
putative protein [Arabidopsis thaliana]

Seq. No.	45104	Seq. ID	OJ000301_02.0404.C5
Gene No.	95287	Strand	+
Start	56	End	6136
Name	OJ000301_02.0404.C5.o1.gp	Method	AAT/GAP
Start	4010	End	4457
GI	none	Score	780
Exons	4010..4457		

Seq. No.	45104	Seq. ID	OJ000301_02.0404.C5
Gene No.	95287	Strand	+
Start	56	End	6136
Name	OJ000301_02.0404.C5.o2.gp	Method	AAT/GAP
Start	5447	End	6136
GI	73393_1.R1084	Score	1025
Exons	5447..5525, 5668..6136		
GI Descrip.	'2443329/dbj BAA22374  1.0e-09 (D86122) Mei2-like protein [Arabidopsis thaliana]'		

Seq. No.	45104	Seq. ID	OJ000301_02.0404.C5
Gene No.	95288	Strand	+
Start	7046	End	8224
Name	OJ000301_02.0404.C5.o1.tc	Method	TBLASTX:Cress
Start	1133	End	5533
GI	none	Score	153
Exons	1133..1393, 1421..1579, 1471..1578, 1766..1936, 1772..1942, 1775..1936, 2009..2134, 2019..2141, 2264..2413, 2302..2409, 4642..4848, 4743..4829, 4783..4830, 4873..4989, 4904..4987, 4906..4989, 5073..5144, 5074..5088, 5075..5137, 5324..5518, 5339..5377, 5340..5528, 5343..5525, 5414..5533		

Seq. No.	45104	Seq. ID	OJ000301_02.0404.C5
Gene No.	95288	Strand	+
Start	7046	End	8224
Name	OJ000301_02.0404.C5.o1.tm	Method	TBLASTX:Maize
Start	1450	End	2114
GI	none	Score	88
Exons	1450..1545, 1450..1593, 1451..1579, 1769..1936, 1771..1938, 1773..1943, 1777..1938, 1779..1949, 2015..2113, 2018..2113, 2019..2114		

Seq. No.	45104	Seq. ID	OJ000301_02.0404.C5
Gene No.	95288	Strand	+
Start	7046	End	8224
Name	OJ000301_02.0404.C5.o2.ts	Method	TBLASTX:Soybean
Start	1483	End	2425
GI	none	Score	123
Exons	1483..1608, 1484..1579, 1769..1936, 1769..1876, 1772..1921, 1777..1935, 2009..2134, 2022..2138, 2255..2350, 2264..2347, 2272..2343, 2303..2425		

Seq. No.	45104	Seq. ID	OJ000301_02.0404.C5
Gene No.	95288	Strand	+
Start	7046	End	8224
Name	OJ000301_02.0404.C5.o5.tm	Method	TBLASTX:Maize
Start	2115	End	3963
GI	none	Score	35
Exons	2115..2135, 2116..2136, 2118..2141, 2264..2416, 2266..2421, 2266..2418, 3735..3830, 3737..3832, 3738..3830, 3917..3961, 3919..3963, 3922..3963		

Seq. No.	45104	Seq. ID	OJ000301_02.0404.C5
Gene No.	95288	Strand	+
Start	7046	End	8224
Name	OJ000301_02.0404.C5.o2.tm	Method	TBLASTX:Maize
Start	4087	End	4332
GI	none	Score	342
Exons	4087..4332, 4089..4322		

Seq. No.	45104	Seq. ID	OJ000301_02.0404.C5
Gene No.	95288	Strand	+
Start	7046	End	8224
Name	OJ000301_02.0404.C5.o1.ts	Method	TBLASTX:Soybean
Start	4386	End	5558
GI	none	Score	90
Exons	4386..4475, 4387..4470, 4503..4664, 4513..4848, 4743..4829, 4873..4989, 4906..4989, 5073..5144, 5075..5128, 5343..5558, 5345..5518, 5419..5532		

Seq. No.	45104	Seq. ID	OJ000301_02.0404.C5
Gene No.	95288	Strand	+
Start	7046	End	8224
Name	OJ000301_02.0404.C5.o3.tm	Method	TBLASTX:Maize
Start	4573	End	4797
GI	none	Score	312
Exons	4573..4797, 4578..4796		

Seq. No.	45104	Seq. ID	OJ000301_02.0404.C5
Gene No.	95288	Strand	+
Start	7046	End	8224
Name	OJ000301_02.0404.C5.o4.tm	Method	TBLASTX:Maize
Start	4797	End	5539
GI	none	Score	63
Exons	4797..4829, 4798..4848, 4873..4989, 4906..4989, 5073..5144, 5075..5140, 5343..5525, 5343..5534, 5351..5539, 5354..5527		

Seq. No.	45104	Seq. ID	OJ000301_02.0404.C5
Gene No.	95288	Strand	+
Start	7046	End	8224
Name	OJ000301_02.0404.C5.o2.gs	Method	GENSCAN
Start	7046	End	8224
GI	none	Score	.94
Exons	7046..7417, 8093..8224		

Seq. No.	45105	Seq. ID	OJ000301_02.0404.C6
Gene No.	95289	Strand	+
Start	347	End	1487
Name	OJ000301_02.0404.C6.o1.gs	Method	GENSCAN
Start	347	End	1487
GI	none	Score	.73
Exons	347..402, 1166..1487		

Seq. No.	45106	Seq. ID	OJ000301_02.0404.C7
Gene No.	95290	Strand	+
Start	975	End	2390
Name	OJ000301_02.0404.C7.o1.gs	Method	GENSCAN
Start	975	End	2390
GI	none	Score	.5
Exons	975..2390		

Seq. No.	45106	Seq. ID	OJ000301_02.0404.C7
Gene No.	95291	Strand	+
Start	5167	End	14238
Name	OJ000301_02.0404.C7.o3.gs	Method	GENSCAN
Start	5167	End	14238
GI	none	Score	.75
Exons	5167..5510, 6239..6293, 6410..6613, 7043..7300, 7722..7877, 7988..8299, 8387..8474, 8647..8795, 8982..9183, 9922..10111, 10218..10545, 11816..11915, 12170..12418, 12771..13046, 13999..14238		

Seq. No.	45106	Seq. ID	OJ000301_02.0404.C7
Gene No.	95291	Strand	+
Start	5167	End	14238
Name	OJ000301_02.0404.C7.o2.np	Method	AAT/NAP
Start	6222	End	9554
GI	7485328	Score	1129
Exons	6222..6293, 6410..6604, 7004..7300, 7413..7628, 7722..7877, 7988..8299, 8387..8474, 9460..9554		
GI Descrip.	hypothetical protein F10M23.100 - Arabidopsis thaliana gi 4455199 emb CAB36522.1  (AL035440) putative protein [Arabidopsis thaliana] gi 7269528 emb CAB79531.1  (AL161565) putative protein [Arabidopsis thaliana]		

Seq. No.	45106	Seq. ID	OJ000301_02.0404.C7
Gene No.	95291	Strand	+
Start	5167	End	14238
Name	OJ000301_02.0404.C7.o1.gp	Method	AAT/GAP
Start	9926	End	10312
GI	none	Score	758
Exons	9926..10312		
Seq. No.	45106	Seq. ID	OJ000301_02.0404.C7
Gene No.	95291	Strand	+
Start	5167	End	14238
Name	OJ000301_02.0404.C7.o3.np	Method	AAT/NAP
Start	10306	End	13042
GI	4587597	Score	550
Exons	10306..10545, 11816..11915, 12170..12227, 12312..12473, 12748..13042		
GI Descrip.	(AC006951) putative protein phosphatase [Arabidopsis thaliana]		
Seq. No.	45106	Seq. ID	OJ000301_02.0404.C7
Gene No.	95292	Strand	-
Start	3256	End	4742
Name	OJ000301_02.0404.C7.o2.gs	Method	GENSCAN
Start	3256	End	4742
GI	none	Score	.43
Exons	3256..3313, 3466..3540, 4053..4374, 4448..4742		
Seq. No.	45106	Seq. ID	OJ000301_02.0404.C7
Gene No.	95293	Strand	-
Start	12791	End	13326
Name	OJ000301_02.0404.C7.o2.tm	Method	TBLASTX:Maize
Start	894	End	1372
GI	none	Score	444
Exons	894..1247, 897..1133, 901..1203, 902..1204, 1192..1281, 1192..1365, 1200..1355, 1268..1372		
Seq. No.	45106	Seq. ID	OJ000301_02.0404.C7
Gene No.	95293	Strand	-
Start	12791	End	13326
Name	OJ000301_02.0404.C7.o2.ts	Method	TBLASTX:Soybean
Start	900	End	1184
GI	none	Score	173
Exons	900..1061, 900..1040, 1064..1144, 1065..1184		
Seq. No.	45106	Seq. ID	OJ000301_02.0404.C7
Gene No.	95293	Strand	-
Start	12791	End	13326
Name	OJ000301_02.0404.C7.o3.tc	Method	TBLASTX:Cress
Start	6100	End	7195
GI	none	Score	50
Exons	6100..6165, 6252..6293, 6392..6598, 6407..6604, 7021..7101, 7043..7102, 7097..7195, 7117..7188		
Seq. No.	45106	Seq. ID	OJ000301_02.0404.C7
Gene No.	95293	Strand	-
Start	12791	End	13326
Name	OJ000301_02.0404.C7.o3.ts	Method	TBLASTX:Soybean
Start	6249	End	7099

GI	none	Score	54
Exons	6249..6293, 6392..6526, 6406..6531, 6414..6527, 6533..6601, 7021..7098, 7043..7099		

Seq. No.	45106	Seq. ID	OJ000301_02.0404.C7
Gene No.	95293	Strand	-
Start	12791	End	13326
Name	OJ000301_02.0404.C7.o3.tm	Method	TBLASTX:Maize
Start	6256	End	6612
GI	none	Score	49
Exons	6256..6291, 6257..6292, 6392..6604, 6407..6598, 6408..6599, 6478..6612		

Seq. No.	45106	Seq. ID	OJ000301_02.0404.C7
Gene No.	95293	Strand	-
Start	12791	End	13326
Name	OJ000301_02.0404.C7.o1.tw	Method	TBLASTX:Wheat
Start	7060	End	7604
GI	none	Score	220
Exons	7060..7248, 7061..7249, 7410..7604, 7410..7580, 7412..7594		

Seq. No.	45106	Seq. ID	OJ000301_02.0404.C7
Gene No.	95293	Strand	-
Start	12791	End	13326
Name	OJ000301_02.0404.C7.o1.tm	Method	TBLASTX:Maize
Start	7070	End	9321
GI	none	Score	209
Exons	7070..7249, 7072..7248, 7237..7299, 7410..7640, 7412..7615, 7719..7877, 7719..7877, 7978..8259, 7979..8299, 7985..8293, 7995..8294, 8342..8473, 8358..8474, 8384..8473, 8645..8797, 8646..8759, 8650..8796, 8979..9242, 8981..9121, 9120..9248, 9126..9212, 9196..9321, 9247..9318		

Seq. No.	45106	Seq. ID	OJ000301_02.0404.C7
Gene No.	95293	Strand	-
Start	12791	End	13326
Name	OJ000301_02.0404.C7.o1.ts	Method	TBLASTX:Soybean
Start	7130	End	8302
GI	none	Score	72
Exons	7130..7201, 7410..7640, 7412..7621, 7719..7877, 7719..7877, 7978..8160, 7979..8302, 7985..8302		

Seq. No.	45106	Seq. ID	OJ000301_02.0404.C7
Gene No.	95293	Strand	-
Start	12791	End	13326
Name	OJ000301_02.0404.C7.o2.tc	Method	TBLASTX:Cress
Start	7410	End	7826
GI	none	Score	194
Exons	7410..7640, 7411..7620, 7412..7630, 7713..7802, 7719..7826		

Seq. No.	45106	Seq. ID	OJ000301_02.0404.C7
Gene No.	95293	Strand	-
Start	12791	End	13326
Name	OJ000301_02.0404.C7.o1.tc	Method	TBLASTX:Cress
Start	7836	End	8299
GI	none	Score	47
Exons	7836..7877, 7978..8160, 7979..8299, 7985..8293		



Seq. No.	45106	Seq. ID	OJ000301_02.0404.C7
Gene No.	95293	Strand	-
Start	12791	End	13326
Name	OJ000301_02.0404.C7.o4.tc	Method	TBLASTX:Cress
Start	10305	End	11881
GI	none	Score	122
Exons	10305..10391, 10327..10395, 10441..10545, 10494..10520, 11807..11881		

Seq. No.	45106	Seq. ID	OJ000301_02.0404.C7
Gene No.	95293	Strand	-
Start	12791	End	13326
Name	OJ000301_02.0404.C7.o4.tm	Method	TBLASTX:Maize
Start	10305	End	10553
GI	none	Score	135
Exons	10305..10415, 10327..10419, 10423..10551, 10494..10553		

Seq. No.	45106	Seq. ID	OJ000301_02.0404.C7
Gene No.	95293	Strand	-
Start	12791	End	13326
Name	OJ000301_02.0404.C7.o4.ts	Method	TBLASTX:Soybean
Start	10305	End	13063
GI	none	Score	117
Exons	10305..10397, 10327..10398, 10405..10545, 11789..11902, 11801..11914, 12139..12228, 12168..12227, 12307..12423, 12309..12419, 12782..12817, 12869..13063		

Seq. No.	45106	Seq. ID	OJ000301_02.0404.C7
Gene No.	95293	Strand	-
Start	12791	End	13326
Name	OJ000301_02.0404.C7.o5.tm	Method	TBLASTX:Maize
Start	11801	End	13084
GI	none	Score	151
Exons	11801..11920, 11810..11905, 12139..12228, 12168..12230, 12168..12227, 12307..12417, 12309..12422, 12309..12416, 12356..12418, 12770..12820, 12771..12824, 12824..12991, 12844..12990, 12846..12992, 12877..12993, 13016..13084, 13016..13075		

Seq. No.	45106	Seq. ID	OJ000301_02.0404.C7
Gene No.	95293	Strand	-
Start	12791	End	13326
Name	OJ000301_02.0404.C7.o2.gp	Method	AAT/GAP
Start	12791	End	13326
GI	none	Score	1031
Exons	12791..13326		

Seq. No.	45107	Seq. ID	OJ000301_02.0404.C8
Gene No.	95294	Strand	+
Start	1	End	382
Name	OJ000301_02.0404.C8.o1.np	Method	AAT/NAP
Start	1	End	382
GI	3157929	Score	258
Exons	1..382		

GI Descrip. (AC002131) Contains similarity to hypothetical protein gb|297336 from A. thaliana. [Arabidopsis thaliana]

Seq. No.	45107	Seq. ID	OJ000301_02.0404.C8
Gene No.	95295	Strand	+
Start	2689	End	3381
Name	OJ000301_02.0404.C8.o1.tc	Method	TBLASTX:Cress
Start	4	End	382
GI	none	Score	208
Exons	4..240, 17..382, 316..366		

Seq. No.	45107	Seq. ID	OJ000301_02.0404.C8
Gene No.	95295	Strand	+
Start	2689	End	3381
Name	OJ000301_02.0404.C8.o2.tm	Method	TBLASTX:Maize
Start	4	End	382
GI	none	Score	105
Exons	4..108, 5..109, 149..382, 151..381		

Seq. No.	45107	Seq. ID	OJ000301_02.0404.C8
Gene No.	95295	Strand	+
Start	2689	End	3381
Name	OJ000301_02.0404.C8.o1.ts	Method	TBLASTX:Soybean
Start	4	End	382
GI	none	Score	108
Exons	4..108, 5..109, 149..382, 313..372		

Seq. No.	45107	Seq. ID	OJ000301_02.0404.C8
Gene No.	95295	Strand	+
Start	2689	End	3381
Name	OJ000301_02.0404.C8.o2.gs	Method	GENSCAN
Start	2689	End	3366
GI	none	Score	.49
Exons	2689..2830, 2940..3366		

Seq. No.	45107	Seq. ID	OJ000301_02.0404.C8
Gene No.	95295	Strand	+
Start	2689	End	3381
Name	OJ000301_02.0404.C8.o2.np	Method	AAT/NAP
Start	2879	End	3381
GI	7487145	Score	133
Exons	2879..3381		
GI Descrip.	hypothetical protein T18E12.13 - Arabidopsis thaliana gi 3548810 gb AAC34482.1  (AC005313) putative chloroplast nucleoid DNA-binding protein [Arabidopsis thaliana]		

Seq. No.	45107	Seq. ID	OJ000301_02.0404.C8
Gene No.	95295	Strand	+
Start	2689	End	3381
Name	OJ000301_02.0404.C8.o1.tm	Method	TBLASTX:Maize
Start	3154	End	3361
GI	none	Score	252
Exons	3154..3345, 3155..3361		

Seq. No.	45108	Seq. ID	OJ000301_02.0404.C9
Gene No.	95296	Strand	+
Start	1	End	585
Name	OJ000301_02.0404.C9.o1.np	Method	AAT/NAP
Start	1	End	585

GI	7489168	Score	328
Exons	1..585		
GI Descrip.	nucleoid DNA-binding protein cnd41, chloroplast - common tobacco gi 2541876 dbj BAA22813.1  (D26015) CND41, chloroplast nucleoid DNA binding protein [Nicotiana tabacum]		

Seq. No.	45108	Seq. ID	OJ000301_02.0404.C9
Gene No.	95296	Strand	+
Start	1	End	585
Name	OJ000301_02.0404.C9.o1.gs	Method	GENSCAN
Start	55	End	585
GI	none	Score	.92
Exons	55..585		

Seq. No.	45108	Seq. ID	OJ000301_02.0404.C9
Gene No.	95297	Strand	-
Start	2293	End	2655
Name	OJ000301_02.0404.C9.o1.gp	Method	AAT/GAP
Start	2293	End	2655
GI	none	Score	688
Exons	2293..2655		

Seq. No.	45108	Seq. ID	OJ000301_02.0404.C9
Gene No.	95298	Strand	-
Start	2585	End	6255
Name	OJ000301_02.0404.C9.o2.gs	Method	GENSCAN
Start	2585	End	6255
GI	none	Score	.68
Exons	2585..3479, 3526..3847, 3939..4027, 5706..5788, 6070..6255		

Seq. No.	45108	Seq. ID	OJ000301_02.0404.C9
Gene No.	95298	Strand	-
Start	2585	End	6255
Name	OJ000301_02.0404.C9.o2.np	Method	AAT/NAP
Start	2585	End	4110
GI	7489168	Score	747
Exons	2585..3850, 3939..4110		
GI Descrip.	nucleoid DNA-binding protein cnd41, chloroplast - common tobacco gi 2541876 dbj BAA22813.1  (D26015) CND41, chloroplast nucleoid DNA binding protein [Nicotiana tabacum]		

Seq. No.	45108	Seq. ID	OJ000301_02.0404.C9
Gene No.	95298	Strand	-
Start	2585	End	6255
Name	OJ000301_02.0404.C9.o2.gp	Method	AAT/GAP
Start	2713	End	3116
GI	LIB3434-057-P1-K1-A4	Score	719
Exons	2713..3116		
GI Descrip.	'2541876/dbj BAA22813  2.0e-19 (D26015) CND41, chloroplast nucleoid DNA binding protein [Nicotiana tabacum]'		

Seq. No.	45108	Seq. ID	OJ000301_02.0404.C9
Gene No.	95298	Strand	-
Start	2585	End	6255
Name	OJ000301_02.0404.C9.o3.gp	Method	AAT/GAP
Start	3272	End	3489
GI	LIB3434-041-P1-K1-D5	Score	329

Exons 3272..3489  
GI Descrip. '3953471 2.0e-28 (AC002328) F2202.16 [Arabidopsis thaliana]'

Seq. No.	45108	Seq. ID	OJ000301_02.0404.C9
Gene No.	95298	Strand	-
Start	2585	End	6255
Name	OJ000301_02.0404.C9.o4.gp	Method	AAT/GAP
Start	3692	End	4094
GI	427617	Score	802
Exons	3692..4094		

Seq. No.	45108	Seq. ID	OJ000301_02.0404.C9
Gene No.	95299	Strand	-
Start	7609	End	16565
Name	OJ000301_02.0404.C9.o3.gs	Method	GENSCAN
Start	7609	End	16565
GI	none	Score	.7
Exons	7609..7734, 7800..7937, 8386..8449, 9811..10006, 10284..10512, 10590..10865, 11231..11416, 11645..11685, 12052..12246, 12543..12945, 13381..13855, 15100..15204, 16546..16565		

Seq. No.	45108	Seq. ID	OJ000301_02.0404.C9
Gene No.	95299	Strand	-
Start	7609	End	16565
Name	OJ000301_02.0404.C9.o3.np	Method	AAT/NAP
Start	9811	End	13824
GI	3953478	Score	2128
Exons	9811..10049, 10257..10512, 10638..10865, 11026..11130, 11231..11685, 12052..12246, 12543..12945, 13381..13659, 13721..13824		

GI Descrip. (AC002328) F2202.23 [Arabidopsis thaliana]

Seq. No.	45108	Seq. ID	OJ000301_02.0404.C9
Gene No.	95300	Strand	-
Start	17612	End	19449
Name	OJ000301_02.0404.C9.o2.ts	Method	TBLASTX:Soybean
Start	1	End	3647
GI	none	Score	75
Exons	1..81, 82..231, 219..290, 220..315, 319..453, 348..419, 463..549, 465..548, 2595..2714, 2603..2713, 2720..2992, 2727..2951, 2939..3028, 2951..3025, 3120..3284, 3125..3283, 3287..3385, 3297..3386, 3453..3491, 3504..3647		

Seq. No.	45108	Seq. ID	OJ000301_02.0404.C9
Gene No.	95300	Strand	-
Start	17612	End	19449
Name	OJ000301_02.0404.C9.o6.tm	Method	TBLASTX:Maize
Start	1	End	3355
GI	none	Score	84
Exons	1..99, 3125..3280, 3126..3278, 3287..3355		

Seq. No.	45108	Seq. ID	OJ000301_02.0404.C9
Gene No.	95300	Strand	-
Start	17612	End	19449
Name	OJ000301_02.0404.C9.o1.tm	Method	TBLASTX:Maize
Start	181	End	2989
GI	none	Score	158

Exons 181..315, 189..293, 342..548, 343..549, 433..555, 2586..2876,  
2603..2836, 2784..2855, 2838..2984, 2838..2876, 2846..2989

Seq. No. 45108 Seq. ID OJ000301\_02.0404.C9  
Gene No. 95300 Strand -  
Start 17612 End 19449  
Name OJ000301\_02.0404.C9.o1.tc Method TBLASTX:Cress  
Start 208 End 2962  
GI none Score 119  
Exons 208..315, 319..450, 342..449, 463..555, 465..551, 2603..2713,  
2720..2962, 2727..2951, 2729..2962

Seq. No. 45108 Seq. ID OJ000301\_02.0404.C9  
Gene No. 95300 Strand -  
Start 17612 End 19449  
Name OJ000301\_02.0404.C9.o3.tc Method TBLASTX:Cress  
Start 3158 End 3641  
GI none Score 119  
Exons 3158..3286, 3281..3364, 3459..3503, 3504..3641

Seq. No. 45108 Seq. ID OJ000301\_02.0404.C9  
Gene No. 95300 Strand -  
Start 17612 End 19449  
Name OJ000301\_02.0404.C9.o4.tm Method TBLASTX:Maize  
Start 3453 End 3845  
GI none Score 99  
Exons 3453..3641, 3456..3602, 3457..3636, 3696..3773, 3744..3845,  
3775..3840

Seq. No. 45108 Seq. ID OJ000301\_02.0404.C9  
Gene No. 95300 Strand -  
Start 17612 End 19449  
Name OJ000301\_02.0404.C9.o2.tc Method TBLASTX:Cress  
Start 9810 End 10515  
GI none Score 113  
Exons 9810..10052, 9883..9993, 10354..10515, 10361..10501

Seq. No. 45108 Seq. ID OJ000301\_02.0404.C9  
Gene No. 95300 Strand -  
Start 17612 End 19449  
Name OJ000301\_02.0404.C9.o5.ts Method TBLASTX:Soybean  
Start 9825 End 9993  
GI none Score 75  
Exons 9825..9992, 9831..9983, 9832..9993

Seq. No. 45108 Seq. ID OJ000301\_02.0404.C9  
Gene No. 95300 Strand -  
Start 17612 End 19449  
Name OJ000301\_02.0404.C9.o5.tm Method TBLASTX:Maize  
Start 9858 End 10862  
GI none Score 190  
Exons 9858..10040, 9859..10053, 10326..10457, 10335..10430,  
10343..10516, 10345..10515, 10367..10519, 10623..10712,  
10637..10681, 10677..10862

Seq. No. 45108 Seq. ID OJ000301\_02.0404.C9  
Gene No. 95300 Strand -

Start	17612	End	19449
Name	OJ000301_02.0404.C9.o1.ts	Method	TBLASTX:Soybean
Start	10761	End	11483
GI	5342530	Score	84
Exons	10761..10865, 10813..10866, 10996..11127, 11024..11131, 11027..11128, 11231..11482, 11334..11483		
GI Descrip.	3953478 4.0e-59 (AC002328) F2202.23 [Arabidopsis thaliana]		

Seq. No.	45108	Seq. ID	OJ000301_02.0404.C9
Gene No.	95300	Strand	-
Start	17612	End	19449
Name	OJ000301_02.0404.C9.o2.tm	Method	TBLASTX:Maize
Start	11059	End	11491
GI	none	Score	66
Exons	11059..11130, 11060..11131, 11231..11491, 11237..11287, 11280..11489, 11336..11491		

Seq. No.	45108	Seq. ID	OJ000301_02.0404.C9
Gene No.	95300	Strand	-
Start	17612	End	19449
Name	OJ000301_02.0404.C9.o1.tw	Method	TBLASTX:Wheat
Start	11460	End	12221
GI	none	Score	233
Exons	11460..11699, 11460..11699, 11462..11707, 12077..12220, 12078..12221		

Seq. No.	45108	Seq. ID	OJ000301_02.0404.C9
Gene No.	95300	Strand	-
Start	17612	End	19449
Name	OJ000301_02.0404.C9.o4.ts	Method	TBLASTX:Soybean
Start	11579	End	12262
GI	none	Score	74
Exons	11579..11692, 11619..11690, 12053..12256, 12054..12251, 12110..12262		

Seq. No.	45108	Seq. ID	OJ000301_02.0404.C9
Gene No.	95300	Strand	-
Start	17612	End	19449
Name	OJ000301_02.0404.C9.o3.tm	Method	TBLASTX:Maize
Start	12055	End	12248
GI	none	Score	272
Exons	12055..12117, 12056..12247, 12057..12248		

Seq. No.	45108	Seq. ID	OJ000301_02.0404.C9
Gene No.	95300	Strand	-
Start	17612	End	19449
Name	OJ000301_02.0404.C9.o3.ts	Method	TBLASTX:Soybean
Start	12665	End	13476
GI	none	Score	111
Exons	12665..12754, 12667..12939, 12685..12933, 13378..13476		

Seq. No.	45108	Seq. ID	OJ000301_02.0404.C9
Gene No.	95300	Strand	-
Start	17612	End	19449
Name	OJ000301_02.0404.C9.o4.gs	Method	GENSCAN
Start	17612	End	19449
GI	none	Score	.58

Exons 17612..17824, 18052..18142, 18289..18518, 19388..19449

Seq. No.	45109	Seq. ID	OJ000301_02.0404.C10
Gene No.	95301	Strand	+
Start	1123	End	6042
Name	OJ000301_02.0404.C10.o1.gs	Method	GENSCAN
Start	1123	End	5483
GI	none	Score	.96
Exons	1123..1222, 4207..5483		

Seq. No.	45109	Seq. ID	OJ000301_02.0404.C10
Gene No.	95301	Strand	+
Start	1123	End	6042
Name	OJ000301_02.0404.C10.o1.np	Method	AAT/NAP
Start	3022	End	5480
GI	7489168	Score	699
Exons	3022..3046, 4300..5480		
GI Descrip.	nucleoid DNA-binding protein cnd41, chloroplast - common tobacco gi 2541876 dbj BAA22813.1  (D26015) CND41, chloroplast nucleoid DNA binding protein [Nicotiana tabacum]		

Seq. No.	45109	Seq. ID	OJ000301_02.0404.C10
Gene No.	95301	Strand	+
Start	1123	End	6042
Name	OJ000301_02.0404.C10.o1.gp	Method	AAT/GAP
Start	4689	End	5021
GI	61812_1.R1084	Score	653
Exons	4689..5021		
GI Descrip.	'2541876/dbj BAA22813  7.0e-14 (D26015) CND41, chloroplast nucleoid DNA binding protein [Nicotiana tabacum]'		

Seq. No.	45109	Seq. ID	OJ000301_02.0404.C10
Gene No.	95301	Strand	+
Start	1123	End	6042
Name	OJ000301_02.0404.C10.o2.gp	Method	AAT/GAP
Start	5330	End	6042
GI	none	Score	1328
Exons	5330..6042		

Seq. No.	45109	Seq. ID	OJ000301_02.0404.C10
Gene No.	95302	Strand	-
Start	6848	End	7086
Name	OJ000301_02.0404.C10.o1.tm	Method	TBLASTX:Maize
Start	1082	End	4994
GI	none	Score	93
Exons	1082..1129, 1135..1200, 1139..1198, 4221..4382, 4223..4369, 4427..4939, 4431..4994		

Seq. No.	45109	Seq. ID	OJ000301_02.0404.C10
Gene No.	95302	Strand	-
Start	6848	End	7086
Name	OJ000301_02.0404.C10.o1.ts	Method	TBLASTX:Soybean
Start	4430	End	5479
GI	none	Score	229
Exons	4430..4585, 4431..4703, 4683..4796, 4730..4789, 4800..4940, 4800..4937, 4811..4939, 4998..5246, 5054..5242, 5268..5375, 5292..5339, 5378..5479, 5394..5477		

Seq. No.	45109	Seq. ID	OJ000301_02.0404.C10
Gene No.	95302	Strand	-
Start	6848	End	7086
Name	OJ000301_02.0404.C10.o1.tc	Method	TBLASTX:Cress
Start	4445	End	4850
GI	none	Score	139
Exons	4445..4567, 4446..4565, 4575..4682, 4710..4850		

Seq. No.	45109	Seq. ID	OJ000301_02.0404.C10
Gene No.	95302	Strand	-
Start	6848	End	7086
Name	OJ000301_02.0404.C10.o2.tc	Method	TBLASTX:Cress
Start	5115	End	5480
GI	none	Score	111
Exons	5115..5246, 5120..5245, 5265..5375, 5378..5479, 5385..5480		

Seq. No.	45109	Seq. ID	OJ000301_02.0404.C10
Gene No.	95302	Strand	-
Start	6848	End	7086
Name	OJ000301_02.0404.C10.o2.tm	Method	TBLASTX:Maize
Start	5225	End	5482
GI	none	Score	367
Exons	5225..5482, 5226..5480		

Seq. No.	45109	Seq. ID	OJ000301_02.0404.C10
Gene No.	95302	Strand	-
Start	6848	End	7086
Name	OJ000301_02.0404.C10.o2.gs	Method	GENSCAN
Start	6848	End	7086
GI	none	Score	.65
Exons	6848..7086		

Seq. No.	45110	Seq. ID	OJ000301_08.0407.C1
Gene No.	95303	Strand	+
Start	4917	End	5334
Name	OJ000301_08.0407.C1.o2.gp	Method	AAT/GAP
Start	4917	End	5334
GI	none	Score	812
Exons	4917..5334		

Seq. No.	45110	Seq. ID	OJ000301_08.0407.C1
Gene No.	95304	Strand	+
Start	6801	End	6875
Name	OJ000301_08.0407.C1.o3.gp	Method	AAT/GAP
Start	6801	End	6875
GI	557_1.R1084	Score	68
Exons	6801..6875		
GI Descrip.	'576771/gb U16256 OSU16256 0.0e+00 Oryza sativa cone SR1 sucrose-regulated mRNA, 3''-end sequence'		

Seq. No.	45110	Seq. ID	OJ000301_08.0407.C1
Gene No.	95305	Strand	+
Start	14885	End	15727
Name	OJ000301_08.0407.C1.o4.gs	Method	GENSCAN
Start	14885	End	15727
GI	none	Score	.54



Exons 14885..14984, 15231..15727

Seq. No. 45110 Seq. ID OJ000301\_08.0407.C1  
Gene No. 95306 Strand -  
Start 1 End 15613  
Name OJ000301\_08.0407.C1.o1.np Method AAT/NAP  
Start 1 End 8246  
GI 6691210 Score 1205  
Exons 1..374, 475..621, 2975..3195, 3314..3620, 5177..5426,  
5920..6200, 6307..6455, 7668..7883, 7994..8246  
GI Descrip. (AC007508) F1K23.15 [Arabidopsis thaliana]

Seq. No. 45110 Seq. ID OJ000301\_08.0407.C1  
Gene No. 95306 Strand -  
Start 1 End 15613  
Name OJ000301\_08.0407.C1.o1.gs Method GENSCAN  
Start 475 End 609  
GI none Score .68  
Exons 475..609

Seq. No. 45110 Seq. ID OJ000301\_08.0407.C1  
Gene No. 95306 Strand -  
Start 1 End 15613  
Name OJ000301\_08.0407.C1.o2.gs Method GENSCAN  
Start 2846 End 3187  
GI none Score .97  
Exons 2846..3187

Seq. No. 45110 Seq. ID OJ000301\_08.0407.C1  
Gene No. 95306 Strand -  
Start 1 End 15613  
Name OJ000301\_08.0407.C1.o3.gs Method GENSCAN  
Start 3265 End 14507  
GI none Score .78  
Exons 3265..3742, 3931..4055, 5165..5427, 5924..6214, 7665..8475,  
8481..8638, 12236..12350, 13258..13375, 13480..13604,  
14186..14247, 14351..14507

Seq. No. 45110 Seq. ID OJ000301\_08.0407.C1  
Gene No. 95306 Strand -  
Start 1 End 15613  
Name OJ000301\_08.0407.C1.o4.gp Method AAT/GAP  
Start 7664 End 8343  
GI 36179\_1.R1084 Score 967  
Exons 7664..7883, 7994..8343  
GI Descrip. '4314378/gb|AAD15588| 9.0e-18 (AC006232) putative lipase  
[Arabidopsis thaliana] >gi\_5306262\_gb\_AAD41994.1 AC006233\_5  
(AC006233) putative lipase [Arabidopsis thaliana]'

Seq. No. 45110 Seq. ID OJ000301\_08.0407.C1  
Gene No. 95306 Strand -  
Start 1 End 15613  
Name OJ000301\_08.0407.C1.o5.gp Method AAT/GAP  
Start 11983 End 15337  
GI 28557\_1.R1084 Score 1611  
Exons 11983..12350, 13258..13375, 13480..13604, 14186..14247,  
14351..14519, 15003..15032, 15289..15337

GI Descrip. '126896/sp|P17783|MDHM\_CITVU 6.0e-95 MALATE DEHYDROGENASE, MITOCHONDRIAL PRECURSOR >gi\_319831\_pir\_DEPUMW malate dehydrogenase (EC 1.1.1.37) precursor, mitochondrial - watermelon >gi\_18297\_emb\_CAA35239\_ (X17362) precursor protein (AA -27 to 320) [Citrullus lanatus]'

Seq. No.	45110	Seq. ID	OJ000301_08.0407.C1
Gene No.	95306	Strand	-
Start	1	End	15613
Name	OJ000301_08.0407.C1.o2.np	Method	AAT/NAP
Start	12213	End	15556
GI	126896	Score	1135
Exons	12213..12350, 13258..13375, 13480..13604, 14186..14247, 14351..14519, 15003..15190, 15296..15556		

GI Descrip. MALATE DEHYDROGENASE, MITOCHONDRIAL PRECURSOR gi|319831|pir||DEPUMW malate dehydrogenase (EC 1.1.1.37) precursor, mitochondrial - watermelon gi|18297|emb|CAA35239.1| (X17362) precursor protein (AA -27 to 320) [Citrullus lanatus]

Seq. No.	45110	Seq. ID	OJ000301_08.0407.C1
Gene No.	95306	Strand	-
Start	1	End	15613
Name	OJ000301_08.0407.C1.o7.gp	Method	AAT/GAP
Start	15086	End	15613
GI	4009 2.R1084	Score	779
Exons	15086..15190, 15296..15613		
GI Descrip.	'5929964/gb AAD56659.1  5.0e-85 (AF180335) malate dehydrogenase [Glycine max]'		

Seq. No.	45110	Seq. ID	OJ000301_08.0407.C1
Gene No.	95306	Strand	-
Start	1	End	15613
Name	OJ000301_08.0407.C1.o6.gp	Method	AAT/GAP
Start	15087	End	15559
GI	4009 2.R1084	Score	671
Exons	15087..15190, 15296..15559		
GI Descrip.	'5929964/gb AAD56659.1  5.0e-85 (AF180335) malate dehydrogenase [Glycine max]'		

Seq. No.	45110	Seq. ID	OJ000301_08.0407.C1
Gene No.	95307	Strand	-
Start	16599	End	22248
Name	OJ000301_08.0407.C1.o1.tm	Method	TBLASTX:Maize
Start	180	End	8165
GI	none	Score	179
Exons	180..392, 181..375, 473..526, 474..623, 475..624, 478..624, 593..625, 2931..3089, 2954..3193, 2972..3181, 3015..3194, 3315..3404, 3316..3396, 3397..3477, 3398..3469, 3403..3477, 5114..5428, 5115..5429, 5922..6209, 5923..6201, 5928..6215, 6305..6358, 6305..6442, 6307..6456, 6310..6456, 6410..6463, 7635..7730, 7663..7746, 7663..7746, 7753..7884, 7754..7903, 7971..8075, 7996..8076, 8088..8165, 8089..8163		

Seq. No.	45110	Seq. ID	OJ000301_08.0407.C1
Gene No.	95307	Strand	-
Start	16599	End	22248
Name	OJ000301_08.0407.C1.o2.ts	Method	TBLASTX:Soybean

Start	180	End	6459
GI	none	Score	46
Exons	180..260, 181..255, 264..398, 307..399, 478..627, 5958..6080, 5959..6081, 6090..6224, 6121..6225, 6310..6459		

Seq. No.	45110	Seq. ID	OJ000301_08.0407.C1
Gene No.	95307	Strand	-
Start	16599	End	22248
Name	OJ000301_08.0407.C1.o2.tc	Method	TBLASTX:Cress
Start	180	End	8162
GI	none	Score	51
Exons	180..395, 210..350, 214..399, 464..586, 478..621, 2987..3166, 3149..3193, 3315..3386, 3316..3387, 3412..3465, 3413..3460, 5225..5416, 5922..6221, 5964..6215, 5968..6225, 6310..6453, 7750..7824, 7837..7884, 7965..8066, 7996..8076, 8112..8162, 8119..8148		

Seq. No.	45110	Seq. ID	OJ000301_08.0407.C1
Gene No.	95307	Strand	-
Start	16599	End	22248
Name	OJ000301_08.0407.C1.o3.ts	Method	TBLASTX:Soybean
Start	3062	End	8162
GI	none	Score	100
Exons	3062..3127, 3155..3193, 3315..3413, 3316..3414, 3418..3474, 3419..3460, 7750..7815, 7754..7816, 7819..7884, 7847..7885, 7983..8075, 7996..8073, 8104..8148, 8106..8162		

Seq. No.	45110	Seq. ID	OJ000301_08.0407.C1
Gene No.	95307	Strand	-
Start	16599	End	22248
Name	OJ000301_08.0407.C1.o2.tw	Method	TBLASTX:Wheat
Start	12050	End	13517
GI	none	Score	66
Exons	12050..12094, 12052..12099, 12099..12116, 12195..12218, 12215..12352, 12218..12352, 12307..12372, 13234..13374, 13255..13374, 13256..13375, 13256..13375, 13473..13517, 13477..13515		

Seq. No.	45110	Seq. ID	OJ000301_08.0407.C1
Gene No.	95307	Strand	-
Start	16599	End	22248
Name	OJ000301_08.0407.C1.o2.tm	Method	TBLASTX:Maize
Start	12097	End	15550
GI	none	Score	89
Exons	12097..12138, 12219..12371, 12225..12353, 13255..13374, 13256..13387, 13472..13606, 13477..13605, 13479..13616, 13482..13607, 13535..13612, 14184..14243, 14186..14248, 14187..14249, 14352..14519, 14353..14520, 15003..15032, 15008..15031, 15087..15134, 15089..15190, 15089..15190, 15294..15467, 15299..15496, 15386..15523, 15422..15550		

Seq. No.	45110	Seq. ID	OJ000301_08.0407.C1
Gene No.	95307	Strand	-
Start	16599	End	22248
Name	OJ000301_08.0407.C1.o1.tc	Method	TBLASTX:Cress
Start	12205	End	15476
GI	none	Score	96

Exons 12205..12300, 12210..12371, 12225..12353, 13255..13374,  
13256..13372, 13479..13583, 13480..13581, 14186..14251,  
14190..14252, 14355..14519, 14356..14520, 15002..15031,  
15003..15032, 15087..15134, 15089..15196, 15296..15472,  
15309..15476

Seq. No.	45110	Seq. ID	OJ000301_08.0407.C1
Gene No.	95307	Strand	-
Start	16599	End	22248
Name	OJ000301_08.0407.C1.ol.ts	Method	TBLASTX:Soybean
Start	13262	End	15458
GI	none	Score	150
Exons	13262..13372, 13264..13374, 13473..13577, 13477..13569, 13479..13583, 13480..13578, 14186..14251, 14190..14252, 14334..14519, 14350..14520, 15003..15032, 15087..15134, 15089..15196, 15296..15457, 15312..15458		

Seq. No.	45110	Seq. ID	OJ000301_08.0407.C1
Gene No.	95307	Strand	-
Start	16599	End	22248
Name	OJ000301_08.0407.C1.ol.tw	Method	TBLASTX:Wheat
Start	15087	End	15538
GI	none	Score	69
Exons	15087..15134, 15089..15190, 15294..15464, 15299..15538		

Seq. No.	45110	Seq. ID	OJ000301_08.0407.C1
Gene No.	95307	Strand	-
Start	16599	End	22248
Name	OJ000301_08.0407.C1.o8.gp	Method	AAT/GAP
Start	16257	End	17470
GI	3548929	Score	1352
Exons	16257..16778, 16844..16918, 17187..17298, 17385..17470		

Seq. No.	45110	Seq. ID	OJ000301_08.0407.C1
Gene No.	95307	Strand	-
Start	16599	End	22248
Name	OJ000301_08.0407.C1.o3.tm	Method	TBLASTX:Maize
Start	16586	End	18548
GI	none	Score	67
Exons	16586..16663, 16597..16662, 16602..16670, 16659..16739, 16674..16739, 16676..16741, 16751..16777, 16806..16919, 16838..16927, 16847..16921, 17184..17300, 17187..17300, 17191..17301, 17385..17471, 17388..17468, 18099..18254, 18100..18246, 18237..18311, 18238..18318, 18456..18548		

Seq. No.	45110	Seq. ID	OJ000301_08.0407.C1
Gene No.	95307	Strand	-
Start	16599	End	22248
Name	OJ000301_08.0407.C1.o5.gs	Method	GENSCAN
Start	16599	End	22248
GI	none	Score	.94
Exons	16599..16778, 16844..16918, 17187..17298, 17385..17467, 18102..18322, 18482..18556, 19249..19771, 19896..19984, 20504..20658, 21382..21488, 22147..22248		

Seq. No.	45110	Seq. ID	OJ000301_08.0407.C1
Gene No.	95307	Strand	-

Start	16599	End	22248
Name	OJ000301_08.0407.C1.o3.np	Method	AAT/NAP
Start	16602	End	18296
GI	5103840	Score	224
Exons	16602..16763, 16844..16918, 17187..17329, 18099..18296		
GI Descrip.	(AC007591) F9L1.38 [Arabidopsis thaliana]		

Seq. No.	45111	Seq. ID	OJ000301_08.0407.C2
Gene No.	95308	Strand	+
Start	2553	End	4540
Name	OJ000301_08.0407.C2.o2.gs	Method	GENSCAN
Start	2553	End	4540
GI	none	Score	.46
Exons	2553..2681, 4058..4540		

Seq. No.	45111	Seq. ID	OJ000301_08.0407.C2
Gene No.	95309	Strand	+
Start	5971	End	6102
Name	OJ000301_08.0407.C2.o3.gs	Method	GENSCAN
Start	5971	End	6102
GI	none	Score	.87
Exons	5971..6102		

Seq. No.	45111	Seq. ID	OJ000301_08.0407.C2
Gene No.	95310	Strand	+
Start	6781	End	12036
Name	OJ000301_08.0407.C2.o4.gs	Method	GENSCAN
Start	6781	End	12036
GI	none	Score	.85
Exons	6781..7488, 7581..7697, 11388..11477, 11727..11937, 11990..12036		

Seq. No.	45111	Seq. ID	OJ000301_08.0407.C2
Gene No.	95311	Strand	+
Start	14855	End	17623
Name	OJ000301_08.0407.C2.o6.gs	Method	GENSCAN
Start	14855	End	17623
GI	none	Score	.75
Exons	14855..14916, 15229..15708, 15892..15960, 17491..17623		

Seq. No.	45111	Seq. ID	OJ000301_08.0407.C2
Gene No.	95312	Strand	-
Start	6939	End	13920
Name	OJ000301_08.0407.C2.o1.np	Method	AAT/NAP
Start	6939	End	13671
GI	5803263	Score	580
Exons	6939..7020, 11883..11962, 12454..13671		
GI Descrip.	(AP000399) similar to serine/threonine-specific protein kinase PK10 precursor (AL021811) [Oryza sativa]		

Seq. No.	45111	Seq. ID	OJ000301_08.0407.C2
Gene No.	95312	Strand	-
Start	6939	End	13920
Name	OJ000301_08.0407.C2.o5.gs	Method	GENSCAN
Start	12400	End	13920
GI	none	Score	.88
Exons	12400..13920		

Seq. No. 45111  
 Gene No. 95313  
 Start 19432  
 Name OJ000301\_08.0407.C2.o3.tm  
 Start 6973  
 GI none  
 Exons 6973..7239

Seq. ID OJ000301\_08.0407.C2  
 Strand -  
 End 20275  
 Method TBLASTX:Maize  
 End 7239  
 Score 209

Seq. No. 45111  
 Gene No. 95313  
 Start 19432  
 Name OJ000301\_08.0407.C2.o2.ts  
 Start 6976  
 GI none  
 Exons 6976..7230

Seq. ID OJ000301\_08.0407.C2  
 Strand -  
 End 20275  
 Method TBLASTX:Soybean  
 End 7230  
 Score 207

Seq. No. 45111  
 Gene No. 95313  
 Start 19432  
 Name OJ000301\_08.0407.C2.o1.ts  
 Start 12487  
 GI none  
 Exons 12487..12564, 12637..12666, 12760..12828, 12844..13068, 12845..13048, 13144..13323, 13151..13321

Seq. ID OJ000301\_08.0407.C2  
 Strand -  
 End 20275  
 Method TBLASTX:Soybean  
 End 13323  
 Score 78

Seq. No. 45111  
 Gene No. 95313  
 Start 19432  
 Name OJ000301\_08.0407.C2.o1.tc  
 Start 12763  
 GI none  
 Exons 12763..12840, 12772..12828, 12836..12985, 12844..13062, 13141..13299, 13150..13326, 13181..13321

Seq. ID OJ000301\_08.0407.C2  
 Strand -  
 End 20275  
 Method TBLASTX:Cress  
 End 13326  
 Score 40

Seq. No. 45111  
 Gene No. 95313  
 Start 19432  
 Name OJ000301\_08.0407.C2.o2.tm  
 Start 12763  
 GI none  
 Exons 12763..12828, 12764..12829, 12844..13062, 12845..13063, 13138..13326

Seq. ID OJ000301\_08.0407.C2  
 Strand -  
 End 20275  
 Method TBLASTX:Maize  
 End 13326  
 Score 41

Seq. No. 45111  
 Gene No. 95313  
 Start 19432  
 Name OJ000301\_08.0407.C2.o1.tw  
 Start 12769  
 GI none  
 Exons 12769..12828, 12833..12985, 12835..13068

Seq. ID OJ000301\_08.0407.C2  
 Strand -  
 End 20275  
 Method TBLASTX:Wheat  
 End 13068  
 Score 89

Seq. No. 45111  
 Gene No. 95313  
 Start 19432  
 Name OJ000301\_08.0407.C2.o1.tm  
 Start 18489  
 GI none

Seq. ID OJ000301\_08.0407.C2  
 Strand -  
 End 20275  
 Method TBLASTX:Maize  
 End 20080  
 Score 84

Exons 18489..18557, 18489..18548, 18500..18556, 18629..18706,  
18634..18771, 18640..18756, 18828..18965, 18828..18968,  
18832..18966, 19946..20005, 19947..20021, 19988..20047,  
20044..20076, 20045..20080

Seq. No.	45111	Seq. ID	OJ000301_08.0407.C2
Gene No.	95313	Strand	-
Start	19432	End	20275
Name	OJ000301_08.0407.C2.o7.gs	Method	GENSCAN
Start	19432	End	20275
GI	none	Score	.63
Exons	19432..19488, 19696..19850, 20110..20275		

Seq. No.	45112	Seq. ID	OJ000301_08.0407.C3
Gene No.	95314	Strand	+
Start	1	End	4551
Name	OJ000301_08.0407.C3.o1.np	Method	AAT/NAP
Start	1	End	4551
GI	7339707	Score	58
Exons	1..111, 1002..1224, 1824..1954, 2974..3145, 4524..4551		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	45112	Seq. ID	OJ000301_08.0407.C3
Gene No.	95314	Strand	+
Start	1	End	4551
Name	OJ000301_08.0407.C3.o1.gs	Method	GENSCAN
Start	529	End	3385
GI	none	Score	.56
Exons	529..748, 1027..1190, 1272..1292, 1806..1860, 2091..2259, 2884..2995, 3088..3232, 3306..3385		

Seq. No.	45112	Seq. ID	OJ000301_08.0407.C3
Gene No.	95315	Strand	+
Start	4851	End	7801
Name	OJ000301_08.0407.C3.o2.np	Method	AAT/NAP
Start	4851	End	7801
GI	5042463	Score	129
Exons	4851..4871, 6078..6268, 6926..7081, 7134..7234, 7736..7801		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	45112	Seq. ID	OJ000301_08.0407.C3
Gene No.	95316	Strand	-
Start	5783	End	11733
Name	OJ000301_08.0407.C3.o2.gs	Method	GENSCAN
Start	5783	End	11619
GI	none	Score	.44
Exons	5783..5921, 6204..6262, 7518..7832, 8118..8325, 9086..9196, 9466..9565, 9709..9830, 9946..10013, 11434..11619		

Seq. No.	45112	Seq. ID	OJ000301_08.0407.C3
Gene No.	95316	Strand	-
Start	5783	End	11733
Name	OJ000301_08.0407.C3.o3.np	Method	AAT/NAP
Start	11421	End	11733
GI	6539588	Score	215
Exons	11421..11733		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	45112	Seq. ID	OJ000301_08.0407.C3
Gene No.	95317	Strand	-
Start	13650	End	14084
Name	OJ000301_08.0407.C3.o1.ts	Method	TBLASTX:Soybean
Start	13638	End	14084
GI	none	Score	131
Exons	13638..13898, 13935..14084		

Seq. No.	45112	Seq. ID	OJ000301_08.0407.C3
Gene No.	95317	Strand	-
Start	13650	End	14084
Name	OJ000301_08.0407.C3.o4.np	Method	AAT/NAP
Start	13650	End	14084
GI	6630685	Score	489
Exons	13650..14084		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	45112	Seq. ID	OJ000301_08.0407.C3
Gene No.	95317	Strand	-
Start	13650	End	14084
Name	OJ000301_08.0407.C3.o1.tc	Method	TBLASTX:Cress
Start	13668	End	14033
GI	none	Score	84
Exons	13668..13913, 13902..14033		

Seq. No.	45112	Seq. ID	OJ000301_08.0407.C3
Gene No.	95317	Strand	-
Start	13650	End	14084
Name	OJ000301_08.0407.C3.o1.tm	Method	TBLASTX:Maize
Start	13668	End	14084
GI	none	Score	268
Exons	13668..14084, 13678..14082		

Seq. No.	45112	Seq. ID	OJ000301_08.0407.C3
Gene No.	95317	Strand	-
Start	13650	End	14084
Name	OJ000301_08.0407.C3.o1.tw	Method	TBLASTX:Wheat
Start	13713	End	14081
GI	none	Score	87
Exons	13713..13904, 13713..13889, 13908..14081		

Seq. No.	45113	Seq. ID	OJ000301_08.0407.C4
Gene No.	95318	Strand	-
Start	1	End	842
Name	OJ000301_08.0407.C4.o1.np	Method	AAT/NAP
Start	1	End	842
GI	3777527	Score	343
Exons	1..373, 533..842		
GI Descrip.	(AF053008) gag-pol polyprotein [Glycine max]		

Seq. No.	45113	Seq. ID	OJ000301_08.0407.C4
Gene No.	95318	Strand	-
Start	1	End	842
Name	OJ000301_08.0407.C4.o1.tm	Method	TBLASTX:Maize
Start	558	End	842



GI	none	Score	79
Exons	558..710, 705..842, 706..840		
Seq. No.	45114	Seq. ID	OJ000301_08.0407.C6
Gene No.	95319	Strand	+
Start	6579	End	10928
Name	OJ000301_08.0407.C6.o2.gs	Method	GENSCAN
Start	6579	End	10928
GI	none	Score	.66
Exons	6579..6846, 7385..7692, 7835..7925, 8241..8390, 8439..8551, 9040..9168, 9296..9499, 9804..10004, 10896..10928		

Seq. No.	45114	Seq. ID	OJ000301_08.0407.C6
Gene No.	95319	Strand	+
Start	6579	End	10928
Name	OJ000301_08.0407.C6.o1.np	Method	AAT/NAP
Start	6582	End	10258
GI	5103847	Score	1565
Exons	6582..6846, 7385..7692, 7835..8551, 9040..9168, 9296..9499, 9804..10004, 10139..10258		
GI Descrip.	(AC007591) Contains PF 00561 alpha/beta hydrolase fold. [Arabidopsis thaliana]		

Seq. No.	45114	Seq. ID	OJ000301_08.0407.C6
Gene No.	95320	Strand	+
Start	13420	End	14710
Name	OJ000301_08.0407.C6.o4.gs	Method	GENSCAN
Start	13420	End	14710
GI	none	Score	.81
Exons	13420..13537, 14676..14710		

Seq. No.	45114	Seq. ID	OJ000301_08.0407.C6
Gene No.	95321	Strand	+
Start	25608	End	28585
Name	OJ000301_08.0407.C6.o3.np	Method	AAT/NAP
Start	25608	End	28512
GI	4996894	Score	68
Exons	25608..25658, 28166..28211, 28393..28512		
GI Descrip.	(AF065164) hyperpolarization-activated, cyclic nucleotide-gated channel 2 [Homo sapiens]		

Seq. No.	45114	Seq. ID	OJ000301_08.0407.C6
Gene No.	95321	Strand	+
Start	25608	End	28585
Name	OJ000301_08.0407.C6.o6.gs	Method	GENSCAN
Start	28322	End	28585
GI	none	Score	.72
Exons	28322..28585		

Seq. No.	45114	Seq. ID	OJ000301_08.0407.C6
Gene No.	95322	Strand	+
Start	29201	End	29292
Name	OJ000301_08.0407.C6.o2.gp	Method	AAT/GAP
Start	29201	End	29292
GI	LIB3477-003-P1-K1-E9	Score	140
Exons	29201..29292		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY		

S 1 PRECURSOR (ORY S I) >gi\_1173557 (U31771) Ory s 1 [Oryza sativa]'

Seq. No.	45114	Seq. ID	OJ000301_08.0407.C6
Gene No.	95323	Strand	-
Start	11547	End	11900
Name	OJ000301_08.0407.C6.o3.gs	Method	GENSCAN
Start	11547	End	11900
GI	none	Score	.56
Exons	11547..11900		

Seq. No.	45114	Seq. ID	OJ000301_08.0407.C6
Gene No.	95324	Strand	-
Start	15975	End	25308
Name	OJ000301_08.0407.C6.o5.gs	Method	GENSCAN
Start	15975	End	25305
GI	none	Score	.77
Exons	15975..16064, 16562..16781, 16891..16913, 17004..17112, 17747..17828, 17986..18080, 18242..18628, 19463..20384, 20732..20807, 20905..21102, 21993..22148, 22533..22850, 22936..22993, 23173..23538, 25001..25305		

Seq. No.	45114	Seq. ID	OJ000301_08.0407.C6
Gene No.	95324	Strand	-
Start	15975	End	25308
Name	OJ000301_08.0407.C6.o2.np	Method	AAT/NAP
Start	19465	End	25308
GI	7110220	Score	3270
Exons	19465..19963, 20000..20384, 20732..20807, 20905..21102, 21530..21728, 21802..21833, 21993..22091, 22187..22432, 22533..22850, 22936..22993, 23173..23538, 25001..25141, 25229..25308		

GI Descrip. (AF207745) AKT1-like potassium channel [Triticum aestivum]

Seq. No.	45114	Seq. ID	OJ000301_08.0407.C6
Gene No.	95324	Strand	-
Start	15975	End	25308
Name	OJ000301_08.0407.C6.o1.gp	Method	AAT/GAP
Start	19854	End	21106
GI	21576_1.R1084	Score	1527
Exons	19854..20384, 20732..20807, 20905..21106		
GI Descrip.	'5670155/gb AF161269.1 AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		

Seq. No.	45114	Seq. ID	OJ000301_08.0407.C6
Gene No.	95325	Strand	-
Start	29668	End	29752
Name	OJ000301_08.0407.C6.o6.tm	Method	TBLASTX:Maize
Start	7354	End	7578
GI	none	Score	210
Exons	7354..7578, 7356..7577		

Seq. No.	45114	Seq. ID	OJ000301_08.0407.C6
Gene No.	95325	Strand	-
Start	29668	End	29752
Name	OJ000301_08.0407.C6.o5.ts	Method	TBLASTX:Soybean
Start	7512	End	7700

GI none  
Exons 7512..7700, 7513..7695

Score 217

Seq. No. 45114 Seq. ID OJ000301\_08.0407.C6  
Gene No. 95325 Strand -  
Start 29668 End 29752  
Name OJ000301\_08.0407.C6.o4.ts Method TBLASTX:Soybean  
Start 8231 End 8563  
GI none Score 63  
Exons 8231..8296, 8242..8358, 8401..8559, 8402..8563

Seq. No. 45114 Seq. ID OJ000301\_08.0407.C6  
Gene No. 95325 Strand -  
Start 29668 End 29752  
Name OJ000301\_08.0407.C6.o3.tc Method TBLASTX:Cress  
Start 8344 End 8572  
GI none Score 125  
Exons 8344..8553, 8401..8532, 8402..8572

Seq. No. 45114 Seq. ID OJ000301\_08.0407.C6  
Gene No. 95325 Strand -  
Start 29668 End 29752  
Name OJ000301\_08.0407.C6.o5.tm Method TBLASTX:Maize  
Start 8421 End 9118  
GI none Score 226  
Exons 8421..8564, 8422..8565, 8423..8563, 9037..9096, 9039..9095, 9098..9118

Seq. No. 45114 Seq. ID OJ000301\_08.0407.C6  
Gene No. 95325 Strand -  
Start 29668 End 29752  
Name OJ000301\_08.0407.C6.o3.ts Method TBLASTX:Soybean  
Start 9305 End 9881  
GI none Score 273  
Exons 9305..9499, 9328..9492, 9804..9881

Seq. No. 45114 Seq. ID OJ000301\_08.0407.C6  
Gene No. 95325 Strand -  
Start 29668 End 29752  
Name OJ000301\_08.0407.C6.o1.tm Method TBLASTX:Maize  
Start 19485 End 20946  
GI none Score 134  
Exons 19485..19553, 19492..19668, 19492..19665, 19657..19707, 19658..19699, 19736..19936, 19753..19935, 19996..20208, 20006..20386, 20011..20385, 20092..20265, 20720..20806, 20733..20828, 20734..20808, 20741..20836, 20900..20944, 20905..20946

Seq. No. 45114 Seq. ID OJ000301\_08.0407.C6  
Gene No. 95325 Strand -  
Start 29668 End 29752  
Name OJ000301\_08.0407.C6.o1.tc Method TBLASTX:Cress  
Start 19498 End 25095  
GI none Score 90  
Exons 19498..19581, 21536..21694, 21536..21703, 21993..22091, 22000..22089, 22131..22325, 22184..22327, 22328..22432, 22329..22433, 22524..22859, 22539..22850, 22543..22851,

22930..23001, 22931..22996, 22939..23001, 23275..23541,  
23277..23540, 24964..25095

Seq. No.	45114	Seq. ID	OJ000301_08.0407.C6
Gene No.	95325	Strand	-
Start	29668	End	29752
Name	OJ000301_08.0407.C6.o2.ts	Method	TBLASTX:Soybean
Start	20107	End	21682
GI	none	Score	93
Exons	20107..20268, 20203..20385, 20258..20392, 20730..20807, 20731..20808, 20900..21073, 20905..21075, 21530..21682, 21537..21680		

Seq. No.	45114	Seq. ID	OJ000301_08.0407.C6
Gene No.	95325	Strand	-
Start	29668	End	29752
Name	OJ000301_08.0407.C6.o2.tc	Method	TBLASTX:Cress
Start	20140	End	21093
GI	none	Score	129
Exons	20140..20364, 20900..21076, 20905..21093		

Seq. No.	45114	Seq. ID	OJ000301_08.0407.C6
Gene No.	95325	Strand	-
Start	29668	End	29752
Name	OJ000301_08.0407.C6.o3.tm	Method	TBLASTX:Maize
Start	20946	End	21722
GI	none	Score	193
Exons	20946..21107, 20947..21111, 20948..21112, 21527..21721, 21534..21722		

Seq. No.	45114	Seq. ID	OJ000301_08.0407.C6
Gene No.	95325	Strand	-
Start	29668	End	29752
Name	OJ000301_08.0407.C6.o1.tw	Method	TBLASTX:Wheat
Start	21539	End	22108
GI	none	Score	240
Exons	21539..21727, 21540..21728, 21540..21731, 21805..21834, 21808..21834, 21983..22108, 21993..22091		

Seq. No.	45114	Seq. ID	OJ000301_08.0407.C6
Gene No.	95325	Strand	-
Start	29668	End	29752
Name	OJ000301_08.0407.C6.o8.tm	Method	TBLASTX:Maize
Start	21975	End	22318
GI	none	Score	93
Exons	21975..22088, 22000..22083, 22187..22318		

Seq. No.	45114	Seq. ID	OJ000301_08.0407.C6
Gene No.	95325	Strand	-
Start	29668	End	29752
Name	OJ000301_08.0407.C6.o1.ts	Method	TBLASTX:Soybean
Start	22020	End	22668
GI	none	Score	72
Exons	22020..22085, 22020..22091, 22021..22089, 22131..22433, 22184..22432, 22533..22667, 22537..22668		

Seq. No.	45114	Seq. ID	OJ000301_08.0407.C6
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Gene No.	95325	Strand	-
Start	29668	End	29752
Name	OJ000301_08.0407.C6.o2.tm	Method	TBLASTX:Maize
Start	22325	End	22692
GI	none	Score	181
Exons	22325..22432, 22524..22691, 22543..22692, 22570..22692		

Seq. No.	45114	Seq. ID	OJ000301_08.0407.C6
Gene No.	95325	Strand	-
Start	29668	End	29752
Name	OJ000301_08.0407.C6.o6.ts	Method	TBLASTX:Soybean
Start	22668	End	22856
GI	none	Score	47
Exons	22668..22724, 22669..22704, 22722..22856, 22726..22854		

Seq. No.	45114	Seq. ID	OJ000301_08.0407.C6
Gene No.	95325	Strand	-
Start	29668	End	29752
Name	OJ000301_08.0407.C6.o4.tm	Method	TBLASTX:Maize
Start	22692	End	23375
GI	none	Score	126
Exons	22692..22859, 22693..22851, 22930..23001, 23277..23375		

Seq. No.	45114	Seq. ID	OJ000301_08.0407.C6
Gene No.	95325	Strand	-
Start	29668	End	29752
Name	OJ000301_08.0407.C6.o2.tw	Method	TBLASTX:Wheat
Start	22930	End	23481
GI	none	Score	48
Exons	22930..22995, 23163..23234, 23165..23374, 23217..23396, 23286..23387, 23376..23480, 23377..23481, 23380..23481		

Seq. No.	45114	Seq. ID	OJ000301_08.0407.C6
Gene No.	95325	Strand	-
Start	29668	End	29752
Name	OJ000301_08.0407.C6.o7.tm	Method	TBLASTX:Maize
Start	23376	End	25272
GI	none	Score	128
Exons	23376..23513, 23376..23513, 23377..23514, 23377..23514, 23378..23518, 24973..25134, 25013..25102, 25086..25121, 25255..25272		

Seq. No.	45114	Seq. ID	OJ000301_08.0407.C6
Gene No.	95325	Strand	-
Start	29668	End	29752
Name	OJ000301_08.0407.C6.o3.gp	Method	AAT/GAP
Start	29668	End	29752
GI	LIB3477-003-P1-K1-E9	Score	151
Exons	29668..29752		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	45115	Seq. ID	OJ000301_08.0407.C7
Gene No.	95326	Strand	+
Start	2103	End	3187
Name	OJ000301_08.0407.C7.o1.gs	Method	GENSCAN

Start 2103  
GI none  
Exons 2103..2193, 3104..3187

End 3187  
Score .9

Seq. No. 45115  
Gene No. 95327  
Start 3968  
Name OJ000301\_08.0407.C7.o2.gs  
Start 3968  
GI none  
Exons 3968..4108, 4159..4203

Seq. ID OJ000301\_08.0407.C7  
Strand +  
End 4203  
Method GENSCAN  
End 4203  
Score .7

Seq. No. 45115  
Gene No. 95328  
Start 6367  
Name OJ000301\_08.0407.C7.o1.np  
Start 6367  
GI 6907086  
Exons 6367..6816, 7047..7199, 7258..8040  
GI Descrip. (AP001129) hypothetical protein [Oryza sativa]

Seq. ID OJ000301\_08.0407.C7  
Strand -  
End 8040  
Method AAT/NAP  
End 8040  
Score 1169

Seq. No. 45115  
Gene No. 95329  
Start 8123  
Name OJ000301\_08.0407.C7.o2.gp  
Start 8123  
GI 5667165  
Exons 8123..8314  
GI Descrip. 5670155/gb|AF161269.1|AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence

Seq. ID OJ000301\_08.0407.C7  
Strand -  
End 8314  
Method AAT/GAP  
End 8314  
Score 364

Seq. No. 45115  
Gene No. 95330  
Start 8747  
Name OJ000301\_08.0407.C7.o2.np  
Start 8747  
GI 4680186  
Exons 8747..9162, 9639..9701  
GI Descrip. (AF111709) unknown [Oryza sativa subsp. indica]

Seq. ID OJ000301\_08.0407.C7  
Strand -  
End 9701  
Method AAT/NAP  
End 9701  
Score 189

Seq. No. 45116  
Gene No. 95331  
Start 44  
Name OJ000301\_08.0407.C9.o1.gs  
Start 44  
GI none  
Exons 44..110, 400..527

Seq. ID OJ000301\_08.0407.C9  
Strand +  
End 527  
Method GENSCAN  
End 527  
Score .76

Seq. No. 45116  
Gene No. 95332  
Start 1  
Name OJ000301\_08.0407.C9.o1.np  
Start 1  
GI 7489803  
Exons 1..489

Seq. ID OJ000301\_08.0407.C9  
Strand -  
End 489  
Method AAT/NAP  
End 489  
Score 181

GI Descrip. pol protein homolog - maize retrotransposon Opie-2  
gi|3645899|gb|AAC49502.1| (U68408) 5' end not determined

experimentally [Zea mays]

Seq. No.	45117	Seq. ID	OJ000221_03.0403.C2
Gene No.	95333	Strand	-
Start	212	End	7034
Name	OJ000221_03.0403.C2.o1.tm	Method	TBLASTX:Maize
Start	1	End	4696
GI	none	Score	180
Exons	1..237, 2..184, 262..318, 263..313, 631..759, 633..761, 633..758, 738..809, 740..814, 742..816, 757..816, 920..973, 974..1120, 1008..1121, 1008..1121, 3058..3135, 3065..3136, 3065..3139, 3066..3182, 3067..3141, 3919..4008, 3920..4009, 3921..4010, 3921..4055, 3922..4017, 4068..4226, 4084..4224, 4087..4227, 4088..4225, 4592..4696, 4593..4685, 4597..4686, 4598..4687		

Seq. No.	45117	Seq. ID	OJ000221_03.0403.C2
Gene No.	95333	Strand	-
Start	212	End	7034
Name	OJ000221_03.0403.C2.o1.gs	Method	GENSCAN
Start	212	End	7034
GI	none	Score	.78
Exons	212..224, 264..310, 633..835, 925..1118, 2341..2526, 3066..3139, 3924..4011, 4085..4224, 4598..4684, 5368..5481, 5572..5694, 5744..5865, 5905..6114, 6968..7034		

Seq. No.	45117	Seq. ID	OJ000221_03.0403.C2
Gene No.	95333	Strand	-
Start	212	End	7034
Name	OJ000221_03.0403.C2.o1.np	Method	AAT/NAP
Start	600	End	6082
GI	4263821	Score	823
Exons	600..835, 934..1118, 3066..3139, 3924..4011, 4085..4224, 5333..5481, 5572..5655, 5744..5841, 5905..6082		
GI Descrip.	(AC006067) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45117	Seq. ID	OJ000221_03.0403.C2
Gene No.	95333	Strand	-
Start	212	End	7034
Name	OJ000221_03.0403.C2.o1.gp	Method	AAT/GAP
Start	730	End	4032
GI	LIB3432-012-P1-K1-G5	Score	828
Exons	730..835, 925..1118, 3066..3139, 3924..4032		
GI Descrip.	'4263821/gb AAD15464  2.0e-16 (AC006067) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	45117	Seq. ID	OJ000221_03.0403.C2
Gene No.	95333	Strand	-
Start	212	End	7034
Name	OJ000221_03.0403.C2.o1.tc	Method	TBLASTX:Cress
Start	3921	End	5458
GI	none	Score	68
Exons	3921..4016, 3921..4082, 4081..4227, 4087..4224, 4125..4229, 4592..4696, 4593..4700, 5365..5457, 5369..5458		

Seq. No.	45117	Seq. ID	OJ000221_03.0403.C2
Gene No.	95333	Strand	-

Start	212	End	7034
Name	OJ000221_03.0403.C2.o1.tw	Method	TBLASTX:Wheat
Start	3921	End	4149
GI	none	Score	159
Exons	3921..4043, 3922..4038, 3923..4072, 4054..4149, 4069..4149		

Seq. No.	45117	Seq. ID	OJ000221_03.0403.C2
Gene No.	95333	Strand	-
Start	212	End	7034
Name	OJ000221_03.0403.C2.o1.ts	Method	TBLASTX:Soybean
Start	3921	End	6086
GI	none	Score	47
Exons	3921..4019, 3922..3996, 4081..4227, 4084..4224, 4124..4225, 4592..4702, 5365..5394, 5389..5496, 5530..5658, 5573..5656, 5744..5806, 5745..5810, 5906..6085, 5925..6086		

Seq. No.	45117	Seq. ID	OJ000221_03.0403.C2
Gene No.	95333	Strand	-
Start	212	End	7034
Name	OJ000221_03.0403.C2.o2.tm	Method	TBLASTX:Maize
Start	5437	End	6005
GI	none	Score	79
Exons	5437..5496, 5437..5490, 5442..5495, 5530..5658, 5531..5656, 5744..5806, 5745..5819, 5796..5819, 5906..5959, 5907..6005, 5970..6005		

Seq. No.	45117	Seq. ID	OJ000221_03.0403.C2
Gene No.	95333	Strand	-
Start	212	End	7034
Name	OJ000221_03.0403.C2.o2.gp	Method	AAT/GAP
Start	5732	End	6150
GI	3061057	Score	544
Exons	5732..5820, 5905..6150		
GI Descrip.	4263821/gb AAD15464  2.0e-16 (AC006067) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45118	Seq. ID	OJ000221_03.0403.C3
Gene No.	95334	Strand	-
Start	445	End	1780
Name	OJ000221_03.0403.C3.o1.gs	Method	GENSCAN
Start	445	End	1780
GI	none	Score	.52
Exons	445..536, 1613..1780		

Seq. No.	45119	Seq. ID	OJ000221_03.0403.C4
Gene No.	95335	Strand	+
Start	1344	End	5659
Name	OJ000221_03.0403.C4.o1.np	Method	AAT/NAP
Start	1344	End	5659
GI	7106508	Score	129
Exons	1344..1374, 2932..3230, 3284..3381, 3458..3556, 5633..5659		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	45119	Seq. ID	OJ000221_03.0403.C4
Gene No.	95335	Strand	+
Start	1344	End	5659
Name	OJ000221_03.0403.C4.o1.gp	Method	AAT/GAP



Start	5093	End	5540
GI	uC-osflcyp173b03b1	Score	892
Exons	5093..5540		
GI Descrip.	'4263821/gb AAD15464  2.0e-16 (AC006067) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	45120	Seq. ID	OJ000221_03.0403.C5
Gene No.	95336	Strand	+
Start	61	End	2778
Name	OJ000221_03.0403.C5.o1.gs	Method	GENSCAN
Start	61	End	2778
GI	none	Score	.95
Exons	61..91, 1222..1283, 1931..2133, 2363..2452, 2607..2778		

Seq. No.	45120	Seq. ID	OJ000221_03.0403.C5
Gene No.	95336	Strand	+
Start	61	End	2778
Name	OJ000221_03.0403.C5.o1.gp	Method	AAT/GAP
Start	1221	End	1461
GI	2428749	Score	248
Exons	1221..1283, 1370..1461		

Seq. No.	45120	Seq. ID	OJ000221_03.0403.C5
Gene No.	95337	Strand	+
Start	11801	End	12045
Name	OJ000221_03.0403.C5.o3.gp	Method	AAT/GAP
Start	11801	End	12045
GI	8022_1.R1084	Score	322
Exons	11801..12045		
GI Descrip.	'5091496/dbj AB023482.2 AB023482 3.0e-37 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'		

Seq. No.	45120	Seq. ID	OJ000221_03.0403.C5
Gene No.	95338	Strand	-
Start	3622	End	8323
Name	OJ000221_03.0403.C5.o2.gs	Method	GENSCAN
Start	3622	End	8323
GI	none	Score	.87
Exons	3622..3730, 4229..4317, 4411..4620, 4700..4829, 4914..5084, 5920..6042, 6134..6238, 6975..7744, 8192..8323		

Seq. No.	45120	Seq. ID	OJ000221_03.0403.C5
Gene No.	95338	Strand	-
Start	3622	End	8323
Name	OJ000221_03.0403.C5.o1.np	Method	AAT/NAP
Start	4296	End	7651
GI	2505874	Score	1339
Exons	4296..4620, 4700..4829, 4914..5084, 5920..6042, 6134..6238, 6975..7369, 7483..7651		
GI Descrip.	(Y12776) putative kinase [Arabidopsis thaliana]		

Seq. No.	45120	Seq. ID	OJ000221_03.0403.C5
Gene No.	95338	Strand	-
Start	3622	End	8323
Name	OJ000221_03.0403.C5.o2.gp	Method	AAT/GAP
Start	4503	End	6013
GI	20801_1.R1084	Score	933

Exons 4503..4620, 4700..4829, 4914..5084, 5920..6013  
 GI Descrip. '2505874/emb|CAA73303| 1.0e-75 (Y12776) putative kinase  
 [Arabidopsis thaliana]'

Seq. No.	45120	Seq. ID	OJ000221_03.0403.C5
Gene No.	95339	Strand	-
Start	13517	End	17525
Name	OJ000221_03.0403.C5.o1.tm	Method	TBLASTX:Maize
Start	4126	End	6038
GI	none	Score	50
Exons	4126..4191, 4146..4190, 4225..4293, 4232..4294, 4297..4317, 4392..4559, 4411..4623, 4426..4623, 4695..4826, 4697..4828, 4697..4828, 4907..4975, 4908..4982, 4911..4982, 4932..5057, 4961..5083, 4972..5085, 4979..5086, 5904..6038, 5904..6038		

Seq. No.	45120	Seq. ID	OJ000221_03.0403.C5
Gene No.	95339	Strand	-
Start	13517	End	17525
Name	OJ000221_03.0403.C5.o1.tc	Method	TBLASTX:Cress
Start	4411	End	4817
GI	none	Score	74
Exons	4411..4623, 4457..4519, 4700..4816, 4701..4817		

Seq. No.	45120	Seq. ID	OJ000221_03.0403.C5
Gene No.	95339	Strand	-
Start	13517	End	17525
Name	OJ000221_03.0403.C5.o1.ts	Method	TBLASTX:Soybean
Start	4420	End	6273
GI	none	Score	107
Exons	4420..4476, 4453..4632, 4453..4623, 4695..4829, 4697..4828, 4748..4831, 4907..5083, 4908..5057, 4916..5083, 5904..6044, 5905..6045, 5927..6046, 5928..6047, 6133..6273, 6134..6241		

Seq. No.	45120	Seq. ID	OJ000221_03.0403.C5
Gene No.	95339	Strand	-
Start	13517	End	17525
Name	OJ000221_03.0403.C5.o1.tw	Method	TBLASTX:Wheat
Start	4697	End	5083
GI	none	Score	51
Exons	4697..4828, 4725..4820, 4907..5083, 4914..5057, 4979..5077		

Seq. No.	45120	Seq. ID	OJ000221_03.0403.C5
Gene No.	95339	Strand	-
Start	13517	End	17525
Name	OJ000221_03.0403.C5.o2.tc	Method	TBLASTX:Cress
Start	4907	End	6241
GI	none	Score	143
Exons	4907..5083, 4908..5057, 5904..6044, 5922..6047, 5941..6045, 5957..6046, 6133..6240, 6140..6241		

Seq. No.	45120	Seq. ID	OJ000221_03.0403.C5
Gene No.	95339	Strand	-
Start	13517	End	17525
Name	OJ000221_03.0403.C5.o3.tm	Method	TBLASTX:Maize
Start	6133	End	7208
GI	none	Score	107
Exons	6133..6240, 6133..6240, 6134..6241, 6964..7095, 6965..7132,		

6974..7147, 6981..7154, 7113..7148, 7160..7195, 7161..7208

Seq. No.	45120	Seq. ID	OJ000221_03.0403.C5
Gene No.	95339	Strand	-
Start	13517	End	17525
Name	OJ000221_03.0403.C5.o3.tc	Method	TBLASTX:Cress
Start	6968	End	7220
GI	none	Score	115
Exons	6968..7126, 6974..7180, 7122..7220		

Seq. No.	45120	Seq. ID	OJ000221_03.0403.C5
Gene No.	95339	Strand	-
Start	13517	End	17525
Name	OJ000221_03.0403.C5.o3.ts	Method	TBLASTX:Soybean
Start	6977	End	7147
GI	none	Score	223
Exons	6977..7147		

Seq. No.	45120	Seq. ID	OJ000221_03.0403.C5
Gene No.	95339	Strand	-
Start	13517	End	17525
Name	OJ000221_03.0403.C5.o4.gp	Method	AAT/GAP
Start	13504	End	14308
GI	24037_1.R1084	Score	636
Exons	13504..13646, 14023..14123, 14208..14308		
GI Descrip.	'3702338 1.0e-38 (AC005397) unknown protein [Arabidopsis thaliana]'		

Seq. No.	45120	Seq. ID	OJ000221_03.0403.C5
Gene No.	95339	Strand	-
Start	13517	End	17525
Name	OJ000221_03.0403.C5.o4.gs	Method	GENSCAN
Start	13517	End	17482
GI	none	Score	.61
Exons	13517..13646, 14023..14123, 14208..14330, 15334..15457, 15809..15950, 16028..16173, 16677..16779, 16901..16962, 17015..17085, 17366..17482		

Seq. No.	45120	Seq. ID	OJ000221_03.0403.C5
Gene No.	95339	Strand	-
Start	13517	End	17525
Name	OJ000221_03.0403.C5.o2.np	Method	AAT/NAP
Start	13520	End	16935
GI	3702338	Score	817
Exons	13520..13646, 14023..14123, 14208..14330, 14435..14549, 14628..14712, 15019..15059, 15141..15187, 15334..15411, 15516..15575, 15670..15723, 15874..15950, 16028..16183, 16909..16935		
GI Descrip.	(AC005397) unknown protein [Arabidopsis thaliana]		

Seq. No.	45120	Seq. ID	OJ000221_03.0403.C5
Gene No.	95339	Strand	-
Start	13517	End	17525
Name	OJ000221_03.0403.C5.o2.ts	Method	TBLASTX:Soybean
Start	14044	End	14659
GI	none	Score	69
Exons	14044..14124, 14046..14123, 14205..14285, 14205..14327,		

14206..14322, 14435..14548, 14439..14570, 14469..14570,  
14606..14659

Seq. No.	45120	Seq. ID	OJ000221_03.0403.C5
Gene No.	95339	Strand	-
Start	13517	End	17525
Name	OJ000221_03.0403.C5.o2.tm	Method	TBLASTX:Maize
Start	14046	End	14583
GI	none	Score	70
Exons	14046..14123, 14047..14124, 14047..14124, 14079..14126, 14205..14333, 14205..14330, 14206..14340, 14206..14331, 14432..14575, 14433..14558, 14434..14583		

Seq. No.	45120	Seq. ID	OJ000221_03.0403.C5
Gene No.	95339	Strand	-
Start	13517	End	17525
Name	OJ000221_03.0403.C5.o5.gp	Method	AAT/GAP
Start	15010	End	15591
GI	LIB3474-010-P1-K1-H10	Score	538
Exons	15010..15187, 15334..15411, 15516..15591		
GI Descrip.	'3702338 2.0e-15 (AC005397) unknown protein [Arabidopsis thaliana]'		

Seq. No.	45120	Seq. ID	OJ000221_03.0403.C5
Gene No.	95339	Strand	-
Start	13517	End	17525
Name	OJ000221_03.0403.C5.o6.gp	Method	AAT/GAP
Start	16652	End	17525
GI	4681_1.R1084	Score	925
Exons	16652..17085, 17366..17525		
GI Descrip.	'2632252/emb CAA73067  4.0e-18 (Y12464) serine/threonine kinase [Sorghum bicolor]'		

Seq. No.	45121	Seq. ID	OJ000221_03.0403.C6
Gene No.	95340	Strand	+
Start	8898	End	9378
Name	OJ000221_03.0403.C6.o2.gs	Method	GENSCAN
Start	8898	End	9365
GI	none	Score	.62
Exons	8898..9216, 9286..9365		

Seq. No.	45121	Seq. ID	OJ000221_03.0403.C6
Gene No.	95340	Strand	+
Start	8898	End	9378
Name	OJ000221_03.0403.C6.o2.np	Method	AAT/NAP
Start	9080	End	9378
GI	5870598	Score	190
Exons	9080..9213, 9319..9378		
GI Descrip.	(Y14809) beta-carotene hydroxylase [Lycopersicon esculentum]		

Seq. No.	45121	Seq. ID	OJ000221_03.0403.C6
Gene No.	95341	Strand	-
Start	1	End	8206
Name	OJ000221_03.0403.C6.o1.gp	Method	AAT/GAP
Start	1	End	1445
GI	4681_1.R1084	Score	1013
Exons	1..66, 176..463, 733..902, 1335..1445		

GI Descrip. '2632252/emb|CAA73067| 4.0e-18 (Y12464) serine/threonine kinase  
[Sorghum bicolor]'

Seq. No.	45121	Seq. ID	OJ000221_03.0403.C6
Gene No.	95341	Strand	-
Start	1	End	8206
Name	OJ000221_03.0403.C6.o1.np	Method	AAT/NAP
Start	1	End	2839
GI	6692106	Score	525
Exons	1..47, 176..492, 729..952, 1357..1397, 1556..1629, 1714..1813, 1948..2114, 2221..2305, 2762..2839		
GI Descrip.	(AC007764) F22C12.25 [Arabidopsis thaliana]		

Seq. No.	45121	Seq. ID	OJ000221_03.0403.C6
Gene No.	95341	Strand	-
Start	1	End	8206
Name	OJ000221_03.0403.C6.o1.tm	Method	TBLASTX:Maize
Start	175	End	2870
GI	none	Score	75
Exons	175..222, 175..216, 177..248, 205..465, 341..472, 342..464, 343..465, 365..487, 723..809, 731..802, 733..822, 808..906, 809..922, 810..908, 1323..1421, 1336..1449, 1339..1425, 1545..1637, 1560..1631, 1565..1639, 1713..1793, 1714..1815, 1715..1837, 2031..2117, 2035..2115, 2036..2119, 2201..2302, 2206..2307, 2216..2278, 2223..2312, 2754..2870, 2762..2839		

Seq. No.	45121	Seq. ID	OJ000221_03.0403.C6
Gene No.	95341	Strand	-
Start	1	End	8206
Name	OJ000221_03.0403.C6.o1.gs	Method	GENSCAN
Start	176	End	8206
GI	none	Score	.68
Exons	176..463, 733..902, 1335..1425, 1563..1650, 1714..1841, 2035..2114, 2221..2305, 2762..2894, 6691..6866, 7096..7452, 7959..8041, 8077..8206		

Seq. No.	45121	Seq. ID	OJ000221_03.0403.C6
Gene No.	95342	Strand	-
Start	9104	End	9378
Name	OJ000221_03.0403.C6.o1.tc	Method	TBLASTX:Cress
Start	9104	End	9377
GI	none	Score	147
Exons	9104..9223, 9105..9218, 9320..9376, 9321..9377		

Seq. No.	45121	Seq. ID	OJ000221_03.0403.C6
Gene No.	95342	Strand	-
Start	9104	End	9378
Name	OJ000221_03.0403.C6.o2.tm	Method	TBLASTX:Maize
Start	9104	End	9378
GI	none	Score	162
Exons	9104..9217, 9105..9218, 9268..9378, 9305..9376, 9312..9377		

Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95343	Strand	+
Start	1	End	1785
Name	OJ000221_03.0403.C7.o1.np	Method	AAT/NAP
Start	1	End	1773

GI	5870600	Score	554
Exons	1..157, 1091..1216, 1340..1396, 1696..1773		
GI Descrip.	(Y14810) beta-carotene hydroxylase [ <i>Lycopersicon esculentum</i> ]		

Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95343	Strand	+
Start	1	End	1785
Name	OJ000221_03.0403.C7.o1.gs	Method	GENSCAN
Start	14	End	1785
GI	none	Score	.98
Exons	14..157, 1091..1216, 1340..1396, 1696..1785		

Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95344	Strand	+
Start	2980	End	4658
Name	OJ000221_03.0403.C7.o2.gs	Method	GENSCAN
Start	2980	End	4502
GI	none	Score	.69
Exons	2980..3441, 3575..3775, 4167..4502		

Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95344	Strand	+
Start	2980	End	4658
Name	OJ000221_03.0403.C7.o2.gp	Method	AAT/GAP
Start	3123	End	4658
GI	904_1.R1084	Score	1911
Exons	3123..3441, 3575..3775, 4167..4658		
GI Descrip.	'3777600 1.0e-131 (AF095708) 50S ribosomal protein L5 [ <i>Oryza sativa</i> ]		

Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95344	Strand	+
Start	2980	End	4658
Name	OJ000221_03.0403.C7.o2.np	Method	AAT/NAP
Start	3136	End	4499
GI	3777600	Score	1356
Exons	3136..3441, 3575..3775, 4167..4499		
GI Descrip.	(AF095708) 50S ribosomal protein L5 [ <i>Oryza sativa</i> ]		

Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95345	Strand	+
Start	4722	End	5133
Name	OJ000221_03.0403.C7.o3.gp	Method	AAT/GAP
Start	4722	End	5133
GI	37628_1.R1084	Score	737
Exons	4722..5133		
GI Descrip.	'3738338 6.0e-11 (AC005170) putative polygalacturonase [ <i>Arabidopsis thaliana</i> ]		

Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95346	Strand	+
Start	12457	End	15997
Name	OJ000221_03.0403.C7.o5.gs	Method	GENSCAN
Start	12457	End	15997
GI	none	Score	.5
Exons	12457..12491, 12541..12912, 13268..13287, 13996..14450, 15827..15997		

Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95347	Strand	-
Start	1677	End	2023
Name	OJ000221_03.0403.C7.o1.gp	Method	AAT/GAP
Start	1677	End	2023
GI	none	Score	633
Exons	1677..2023		

Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95348	Strand	-
Start	4833	End	8792
Name	OJ000221_03.0403.C7.o3.np	Method	AAT/NAP
Start	4827	End	8792
GI	6850840	Score	1262
Exons	4827..5515, 5614..5684, 5780..5954, 6067..6187, 7341..7565, 8676..8792		
GI Descrip.	(AL132962) putative protein [Arabidopsis thaliana]		

Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95348	Strand	-
Start	4833	End	8792
Name	OJ000221_03.0403.C7.o3.gs	Method	GENSCAN
Start	4833	End	7779
GI	none	Score	.9
Exons	4833..5515, 5614..5774, 5780..5954, 6067..6187, 7341..7643, 7756..7779		

Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95348	Strand	-
Start	4833	End	8792
Name	OJ000221_03.0403.C7.o4.gp	Method	AAT/GAP
Start	5445	End	6215
GI	uC-osflcyp086g06b1	Score	779
Exons	5445..5515, 5614..5684, 5780..5954, 6067..6215		
GI Descrip.	'3738338 9.0e-52 (AC005170) putative polygalacturonase [Arabidopsis thaliana]'		

Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95348	Strand	-
Start	4833	End	8792
Name	OJ000221_03.0403.C7.o5.gp	Method	AAT/GAP
Start	7466	End	7998
GI	none	Score	805
Exons	7466..7643, 7756..7998		

Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95349	Strand	-
Start	17752	End	18657
Name	OJ000221_03.0403.C7.o3.tm	Method	TBLASTX:Maize
Start	1	End	1398
GI	none	Score	275
Exons	1..165, 2..157, 1090..1212, 1091..1219, 1094..1216, 1337..1396, 1337..1396, 1339..1398		

Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95349	Strand	-

Start	17752	End	18657
Name	OJ000221_03.0403.C7.o3.ts	Method	TBLASTX:Soybean
Start	1	End	1401
GI	none	Score	260
Exons	1..165, 2..157, 1090..1218, 1091..1219, 1337..1396, 1337..1396, 1351..1401		

Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95349	Strand	-
Start	17752	End	18657
Name	OJ000221_03.0403.C7.o4.tc	Method	TBLASTX:Cress
Start	5	End	1398
GI	none	Score	239
Exons	5..157, 7..165, 1090..1218, 1091..1219, 1337..1396, 1342..1398, 1342..1398		

Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95349	Strand	-
Start	17752	End	18657
Name	OJ000221_03.0403.C7.o5.tm	Method	TBLASTX:Maize
Start	3109	End	3613
GI	none	Score	77
Exons	3109..3198, 3135..3194, 3294..3443, 3324..3443, 3325..3444, 3355..3453, 3572..3613, 3574..3609		

Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95349	Strand	-
Start	17752	End	18657
Name	OJ000221_03.0403.C7.o2.tc	Method	TBLASTX:Cress
Start	3324	End	4504
GI	none	Score	116
Exons	3324..3443, 3325..3444, 3551..3793, 3563..3664, 3574..3780, 4166..4351, 4167..4421, 4431..4502, 4445..4504		

Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95349	Strand	-
Start	17752	End	18657
Name	OJ000221_03.0403.C7.o2.ts	Method	TBLASTX:Soybean
Start	3324	End	4502
GI	none	Score	134
Exons	3324..3443, 3325..3444, 3349..3444, 3572..3793, 3572..3604, 3574..3807, 4164..4475, 4167..4496, 4181..4495, 4479..4502		

Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95349	Strand	-
Start	17752	End	18657
Name	OJ000221_03.0403.C7.o2.tm	Method	TBLASTX:Maize
Start	3616	End	4603
GI	none	Score	211
Exons	3616..3807, 3617..3778, 3625..3792, 4164..4496, 4167..4487, 4169..4492, 4562..4603		

Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95349	Strand	-
Start	17752	End	18657
Name	OJ000221_03.0403.C7.o4.tm	Method	TBLASTX:Maize
Start	4833	End	5009



GI	none	Score	237
Exons	4833..5009, 4834..5001		
Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95349	Strand	-
Start	17752	End	18657
Name	OJ000221_03.0403.C7.o1.tc	Method	TBLASTX:Cress
Start	4915	End	5208
GI	none	Score	159
Exons	4915..5142, 4923..5207, 4950..5207, 5167..5208		
Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95349	Strand	-
Start	17752	End	18657
Name	OJ000221_03.0403.C7.o1.ts	Method	TBLASTX:Soybean
Start	4923	End	7562
GI	none	Score	455
Exons	4923..5516, 4927..5517, 5615..5698, 5616..5687, 5776..5955, 5785..5961, 6065..6211, 6065..6208, 7335..7562, 7336..7542		
Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95349	Strand	-
Start	17752	End	18657
Name	OJ000221_03.0403.C7.o2.tw	Method	TBLASTX:Wheat
Start	4968	End	5264
GI	none	Score	195
Exons	4968..5264		
Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95349	Strand	-
Start	17752	End	18657
Name	OJ000221_03.0403.C7.o1.tm	Method	TBLASTX:Maize
Start	5010	End	7473
GI	none	Score	86
Exons	5010..5516, 5014..5181, 5227..5271, 5305..5355, 5380..5517, 5588..5698, 5616..5663, 5776..5955, 5779..5961, 6065..6175, 7344..7460, 7345..7473		
Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95349	Strand	-
Start	17752	End	18657
Name	OJ000221_03.0403.C7.o6.tc	Method	TBLASTX:Cress
Start	5220	End	5517
GI	none	Score	125
Exons	5220..5273, 5242..5517, 5313..5516		
Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95349	Strand	-
Start	17752	End	18657
Name	OJ000221_03.0403.C7.o3.tc	Method	TBLASTX:Cress
Start	5615	End	6194
GI	none	Score	64
Exons	5615..5698, 5779..5958, 6071..6169, 6078..6194		
Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95349	Strand	-
Start	17752	End	18657

Name	OJ000221_03.0403.C7.o1.tw	Method	TBLASTX:Wheat
Start	5645	End	6175
GI	none	Score	73
Exons	5645..5683, 5782..5961, 5906..5977, 6065..6175		

Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95349	Strand	-
Start	17752	End	18657
Name	OJ000221_03.0403.C7.o5.tc	Method	TBLASTX:Cress
Start	7341	End	7562
GI	none	Score	185
Exons	7341..7562, 7348..7551		

Seq. No.	45122	Seq. ID	OJ000221_03.0403.C7
Gene No.	95349	Strand	-
Start	17752	End	18657
Name	OJ000221_03.0403.C7.o6.gs	Method	GENSCAN
Start	17752	End	18657
GI	none	Score	.57
Exons	17752..18657		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95350	Strand	+
Start	512	End	968
Name	OJ000221_03.0403.C8.o1.gp	Method	AAT/GAP
Start	512	End	968
GI	uC-osrocyp006h05a1	Score	902
Exons	512..968		
GI Descrip.	'4680189/gb AF111710.1 AF111710 7.0e-33 Oryza sativa subsp. indica putative dnaJ-like protein, putative myb-related protein, putative farnesyl pyrophosphate synthase, and hypothetical protein genes, complete cds'		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95351	Strand	+
Start	3278	End	3658
Name	OJ000221_03.0403.C8.o3.gp	Method	AAT/GAP
Start	3278	End	3658
GI	none	Score	762
Exons	3278..3658		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95352	Strand	+
Start	12122	End	12544
Name	OJ000221_03.0403.C8.o5.gp	Method	AAT/GAP
Start	12122	End	12544
GI	none	Score	830
Exons	12122..12544		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95353	Strand	+
Start	20342	End	26448
Name	OJ000221_03.0403.C8.o2.np	Method	AAT/NAP
Start	20342	End	26412
GI	5922631	Score	6708
Exons	20342..20466, 20725..20969, 21219..21428, 21470..22034, 22077..22228, 22355..23278, 23885..26412		

GI Descrip. (AP000492) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativa] gi|6016864|dbj|BAA85207.1| (AP000570) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativ

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95353	Strand	+
Start	20342	End	26448
Name	OJ000221_03.0403.C8.o5.gs	Method	GENSCAN
Start	20342	End	21604
GI	none	Score	.99
Exons	20342..21604		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95353	Strand	+
Start	20342	End	26448
Name	OJ000221_03.0403.C8.o6.gs	Method	GENSCAN
Start	21754	End	26448
GI	none	Score	.82
Exons	21754..23270, 23367..26448		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95354	Strand	-
Start	1	End	10316
Name	OJ000221_03.0403.C8.o1.np	Method	AAT/NAP
Start	1	End	9394
GI	7485261	Score	1514
Exons	1..65, 998..1734, 8013..9394		
GI Descrip.	hypothetical protein A_IG005I10.16 - Arabidopsis thaliana gi 2252836 gb AAB62835.1  (AF013293) contains weak similarity to S. cerevisiae BOB1 protein (PIR:S45444) [Arabidopsis thaliana] gi 6049878 gb AAF02793.1 AF195115_13 (AF195115) contains weak similarity to S. cerevisiae BOB1 protein (PIR:S45444) [Arabidopsis thaliana] gi 7267117 emb CAB80788.1  (AL161471) contains weak		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95354	Strand	-
Start	1	End	10316
Name	OJ000221_03.0403.C8.o2.gp	Method	AAT/GAP
Start	1698	End	2232
GI	44731_1.R1084	Score	1027
Exons	1698..2232		
GI Descrip.	'1644291/emb CAA97692  7.0e-11 (273295) receptor-like protein kinase [Catharanthus roseus]'		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95354	Strand	-
Start	1	End	10316
Name	OJ000221_03.0403.C8.o2.gs	Method	GENSCAN
Start	3585	End	6452
GI	none	Score	.99
Exons	3585..6452		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95354	Strand	-
Start	1	End	10316
Name	OJ000221_03.0403.C8.o4.gp	Method	AAT/GAP
Start	4507	End	4963
GI	uC-osroM202023d09b1	Score	910
Exons	4507..4963		
GI Descrip.	'5679841/emb CAB51834.1  3.0e-09 (AJ243961) contains eukaryotic protein kinase domain PF_00069 [Oryza sativa]'		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95354	Strand	-
Start	1	End	10316
Name	OJ000221_03.0403.C8.o3.gs	Method	GENSCAN
Start	7162	End	10316
GI	none	Score	.9
Exons	7162..7262, 7377..7542, 7806..7916, 8013..9473, 9986..10102, 10305..10316		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95355	Strand	-
Start	12557	End	17365
Name	OJ000221_03.0403.C8.o4.gs	Method	GENSCAN
Start	12557	End	17365
GI	none	Score	.97
Exons	12557..13222, 13936..13996, 15666..16048, 16700..17365		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95355	Strand	-
Start	12557	End	17365
Name	OJ000221_03.0403.C8.o6.gp	Method	AAT/GAP
Start	14966	End	15028
GI	LIB3477-003-P1-K1-E9	Score	82
Exons	14966..15028		
GI Descrip.	'2498586/sp Q40638 MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95356	Strand	-
Start	19907	End	20214
Name	OJ000221_03.0403.C8.o7.gp	Method	AAT/GAP
Start	19907	End	20214
GI	5816559	Score	516
Exons	19907..20214		
GI Descrip.	4680178/gb AF111709.1 AF111709 1.0e-108 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o1.tm	Method	TBLASTX:Maize
Start	609	End	5705
GI	none	Score	51
Exons	609..695, 682..702, 737..955, 737..955, 739..957, 964..1347, 970..1773, 971..1774, 1775..1807, 1782..1811, 5172..5210,		

5295..5342, 5418..5543, 5583..5654, 5601..5705

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o3.ts	Method	TBLASTX:Soybean
Start	997	End	5519
GI	none	Score	152
Exons	997..1347, 1022..1351, 1354..1410, 1361..1411, 1489..1605, 1492..1632, 5088..5162, 5157..5198, 5301..5348, 5415..5519		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o8.tm	Method	TBLASTX:Maize
Start	1812	End	2078
GI	none	Score	72
Exons	1812..1868, 1817..1939, 1817..1948, 1911..1949, 2012..2077, 2031..2078		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o1.ts	Method	TBLASTX:Soybean
Start	3735	End	4637
GI	none	Score	675
Exons	3735..4637, 3742..4635		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o2.tm	Method	TBLASTX:Maize
Start	3735	End	4640
GI	none	Score	210
Exons	3735..4058, 3762..4328, 4009..4329, 4335..4640, 4342..4635		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o3.tc	Method	TBLASTX:Cress
Start	3760	End	4070
GI	none	Score	164
Exons	3760..4068, 3765..4070		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o1.tc	Method	TBLASTX:Cress
Start	4071	End	4625
GI	none	Score	44
Exons	4071..4535, 4084..4119, 4105..4536, 4533..4625, 4534..4623		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o2.tw	Method	TBLASTX:Wheat
Start	4086	End	4469

GI	none	Score	158
Exons	4086..4193, 4087..4194, 4197..4331, 4201..4338, 4323..4469, 4324..4467		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o5.tc	Method	TBLASTX:Cress
Start	7884	End	8321
GI	none	Score	39
Exons	7884..7919, 7885..7917, 8013..8054, 8014..8055, 8040..8321, 8182..8316		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o3.tm	Method	TBLASTX:Maize
Start	8130	End	8546
GI	none	Score	385
Exons	8130..8546, 8176..8541		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o2.ts	Method	TBLASTX:Soybean
Start	8181	End	8819
GI	none	Score	169
Exons	8181..8420, 8182..8421, 8466..8585, 8467..8577, 8571..8819, 8587..8658, 8673..8813		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o11.tm	Method	TBLASTX:Maize
Start	8547	End	8753
GI	none	Score	83
Exons	8547..8753, 8548..8667		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o2.tc	Method	TBLASTX:Cress
Start	8616	End	9182
GI	none	Score	119
Exons	8616..8711, 8706..9008, 8767..8952, 9042..9182, 9052..9150		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o4.tc	Method	TBLASTX:Cress
Start	13145	End	16051
GI	none	Score	84
Exons	13145..13225, 13161..13223, 13892..13996, 13930..13995, 15663..15833, 15665..15832, 15852..16043, 15854..16051		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-

Start	26764	End	31333
Name	OJ000221_03.0403.C8.o5.ts	Method	TBLASTX:Soybean
Start	13145	End	16952
GI	none	Score	86
Exons	13145..13225, 13161..13223, 13892..13996, 13930..13995, 15653..15805, 15663..15914, 15665..15922, 15917..16051, 16878..16952		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o7.tm	Method	TBLASTX:Maize
Start	13954	End	16046
GI	none	Score	155
Exons	13954..13995, 15663..15758, 15665..15790, 15755..16045, 15756..16046		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o8.tw	Method	TBLASTX:Wheat
Start	21639	End	22041
GI	none	Score	293
Exons	21639..21908, 21640..22041		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o7.tw	Method	TBLASTX:Wheat
Start	22618	End	23087
GI	none	Score	149
Exons	22618..22794, 22681..22794, 22839..23075, 22843..23073, 22854..23087		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o1.tw	Method	TBLASTX:Wheat
Start	23295	End	23751
GI	none	Score	497
Exons	23295..23750, 23296..23751		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o7.ts	Method	TBLASTX:Soybean
Start	23335	End	23700
GI	none	Score	138
Exons	23335..23559, 23566..23700		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o5.tm	Method	TBLASTX:Maize
Start	23425	End	23781
GI	none	Score	375
Exons	23425..23781, 23466..23771		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o3.tw	Method	TBLASTX:Wheat
Start	23866	End	24290
GI	none	Score	445
Exons	23866..24285, 23910..24290, 23931..24290		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o4.ts	Method	TBLASTX:Soybean
Start	23914	End	24345
GI	none	Score	315
Exons	23914..24345, 23961..24104, 24141..24311		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o6.tm	Method	TBLASTX:Maize
Start	24012	End	24456
GI	none	Score	274
Exons	24012..24266, 24013..24267, 24048..24284, 24288..24419, 24289..24432, 24430..24456		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o9.tw	Method	TBLASTX:Wheat
Start	24294	End	24580
GI	none	Score	270
Exons	24294..24371, 24295..24576, 24304..24579, 24482..24580		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o6.ts	Method	TBLASTX:Soybean
Start	24571	End	24959
GI	none	Score	86
Exons	24571..24675, 24579..24959, 24715..24957		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o5.tw	Method	TBLASTX:Wheat
Start	24580	End	25002
GI	none	Score	415
Exons	24580..25002, 24588..24992		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o10.tm	Method	TBLASTX:Maize
Start	24633	End	24906
GI	none	Score	121
Exons	24633..24803, 24643..24804, 24808..24906, 24840..24905		



Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o11.tw	Method	TBLASTX:Wheat
Start	25018	End	25317
GI	none	Score	134
Exons	25018..25152, 25177..25317		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o4.tm	Method	TBLASTX:Maize
Start	25314	End	25677
GI	none	Score	445
Exons	25314..25625, 25315..25638, 25629..25676, 25630..25677		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o4.tw	Method	TBLASTX:Wheat
Start	25320	End	25709
GI	none	Score	419
Exons	25320..25631, 25321..25707, 25516..25707, 25662..25709		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o12.tm	Method	TBLASTX:Maize
Start	25779	End	26052
GI	none	Score	91
Exons	25779..25886, 25780..25878, 25869..25943, 25873..25956, 25966..26052		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o6.tw	Method	TBLASTX:Wheat
Start	25822	End	26436
GI	none	Score	272
Exons	25822..26100, 25842..25931, 25983..26084, 26155..26313, 26299..26436		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o9.tm	Method	TBLASTX:Maize
Start	26164	End	26397
GI	none	Score	152
Exons	26164..26316, 26295..26396, 26296..26397		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o7.gs	Method	GENSCAN
Start	26764	End	31142
GI	none	Score	.71

Exons 26764..27212, 27285..27389, 27462..27651, 27727..27914,  
27989..28347, 28429..28586, 28805..29728, 31131..31142

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o3.np	Method	AAT/NAP
Start	26767	End	29689
GI	6691716	Score	2331

Exons 26767..27212, 27285..27401, 27552..27651, 27727..27915,  
28061..28347, 28429..28607, 28805..29689

GI Descrip. (AP000492) hypothetical protein [Oryza sativa]  
gi|6691717|dbj|BAA89397.1| (AP000570) hypothetical protein  
[Oryza sativa]

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o10.tw	Method	TBLASTX:Wheat
Start	29279	End	29569
GI	none	Score	209
Exons	29279..29569		

Seq. No.	45123	Seq. ID	OJ000221_03.0403.C8
Gene No.	95357	Strand	-
Start	26764	End	31333
Name	OJ000221_03.0403.C8.o8.gp	Method	AAT/GAP
Start	31025	End	31333
GI	5816559	Score	525
Exons	31025..31333		
GI Descrip.	4680178/gb AF111709.1 AF111709 1.0e-108 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes		

Seq. No.	45124	Seq. ID	OJ000221_03.0403.C9
Gene No.	95358	Strand	+
Start	195	End	5026
Name	OJ000221_03.0403.C9.o1.gs	Method	GENSCAN
Start	195	End	5026
GI	none	Score	.53
Exons	195..255, 1719..1837, 2814..3017, 3034..3141, 3878..3936, 4602..5026		

Seq. No.	45125	Seq. ID	OJ000221_03.0403.C10
Gene No.	95359	Strand	+
Start	3238	End	4636
Name	OJ000221_03.0403.C10.o2.gs	Method	GENSCAN
Start	3238	End	4489
GI	none	Score	.82
Exons	3238..4122, 4268..4489		

Seq. No.	45125	Seq. ID	OJ000221_03.0403.C10
Gene No.	95359	Strand	+
Start	3238	End	4636
Name	OJ000221_03.0403.C10.o2.np	Method	AAT/NAP
Start	3238	End	4131
GI	5902448	Score	1501

Exons 3238..4131  
GI Descrip. (AB030283) orf3 [Oryza sativa]

Seq. No.	45125	Seq. ID	OJ000221_03.0403.C10
Gene No.	95359	Strand	+
Start	3238	End	4636
Name	OJ000221_03.0403.C10.o3.np	Method	AAT/NAP
Start	4211	End	4636
GI	5902447	Score	310
Exons	4211..4636		
GI Descrip.	(AB030283) orf4 [Oryza sativa]		

Seq. No.	45125	Seq. ID	OJ000221_03.0403.C10
Gene No.	95360	Strand	-
Start	1	End	4301
Name	OJ000221_03.0403.C10.o1.np	Method	AAT/NAP
Start	1	End	4301
GI	5902444	Score	2544
Exons	1..69, 924..2897, 4281..4301		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	45125	Seq. ID	OJ000221_03.0403.C10
Gene No.	95360	Strand	-
Start	1	End	4301
Name	OJ000221_03.0403.C10.o1.gs	Method	GENSCAN
Start	939	End	2887
GI	none	Score	.42
Exons	939..1135, 1211..1680, 1835..2673, 2714..2887		

Seq. No.	45125	Seq. ID	OJ000221_03.0403.C10
Gene No.	95360	Strand	-
Start	1	End	4301
Name	OJ000221_03.0403.C10.o1.tw	Method	TBLASTX:Wheat
Start	1572	End	1990
GI	none	Score	95
Exons	1572..1709, 1759..1989, 1763..1990		

Seq. No.	45125	Seq. ID	OJ000221_03.0403.C10
Gene No.	95360	Strand	-
Start	1	End	4301
Name	OJ000221_03.0403.C10.o2.tw	Method	TBLASTX:Wheat
Start	3331	End	3648
GI	none	Score	221
Exons	3331..3648, 3498..3647		

Seq. No.	45126	Seq. ID	OJ000221_03.0403.C11
Gene No.	95361	Strand	+
Start	1	End	1184
Name	OJ000221_03.0403.C11.o1.np	Method	AAT/NAP
Start	1	End	1184
GI	6691716	Score	955
Exons	1..223, 298..400, 550..663, 737..1184		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6691717 dbj BAA89397.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	45126	Seq. ID	OJ000221_03.0403.C11
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Gene No. 95361  
 Start 1  
 Name OJ000221\_03.0403.C11.o1.gs  
 Start 23  
 GI none  
 Exons 23..175, 298..487, 737..1147

Strand +  
 End 1184  
 Method GENSCAN  
 End 1147  
 Score .83

Seq. No. 45127  
 Gene No. 95362  
 Start 93  
 Name OJ000221\_03.0403.C12.o1.gs  
 Start 93  
 GI none  
 Exons 93..906, 1080..1426, 1526..1629, 2057..3156, 3253..3655, 3725..4010, 4578..4670

Seq. ID OJ000221\_03.0403.C12  
 Strand -  
 End 5063  
 Method GENSCAN  
 End 4670  
 Score .61

Seq. No. 45127  
 Gene No. 95362  
 Start 93  
 Name OJ000221\_03.0403.C12.o1.np  
 Start 96  
 GI 5902445  
 Exons 96..3173  
 GI Descrip. (AB030283) GAG-POL precursor [Oryza sativa]

Seq. ID OJ000221\_03.0403.C12  
 Strand -  
 End 5063  
 Method AAT/NAP  
 End 3173  
 Score 4851

Seq. No. 45127  
 Gene No. 95362  
 Start 93  
 Name OJ000221\_03.0403.C12.o3.tw  
 Start 105  
 GI none  
 Exons 105..236, 228..719, 436..558, 613..699

Seq. ID OJ000221\_03.0403.C12  
 Strand -  
 End 5063  
 Method TBLASTX:Wheat  
 End 719  
 Score 76

Seq. No. 45127  
 Gene No. 95362  
 Start 93  
 Name OJ000221\_03.0403.C12.o4.tm  
 Start 144  
 GI none  
 Exons 144..245, 172..246, 225..407, 226..285

Seq. ID OJ000221\_03.0403.C12  
 Strand -  
 End 5063  
 Method TBLASTX:Maize  
 End 407  
 Score 87

Seq. No. 45127  
 Gene No. 95362  
 Start 93  
 Name OJ000221\_03.0403.C12.o5.tm  
 Start 489  
 GI none  
 Exons 489..575, 585..668, 598..672, 655..762, 663..761

Seq. ID OJ000221\_03.0403.C12  
 Strand -  
 End 5063  
 Method TBLASTX:Maize  
 End 762  
 Score 45

Seq. No. 45127  
 Gene No. 95362  
 Start 93  
 Name OJ000221\_03.0403.C12.o5.tw  
 Start 834  
 GI none  
 Exons 834..1025, 834..1091, 910..1086, 1067..1219, 1071..1220

Seq. ID OJ000221\_03.0403.C12  
 Strand -  
 End 5063  
 Method TBLASTX:Wheat  
 End 1220  
 Score 73

Seq. No.	45127	Seq. ID	OJ000221_03.0403.C12
Gene No.	95362	Strand	-
Start	93	End	5063
Name	OJ000221_03.0403.C12.o1.tm	Method	TBLASTX:Maize
Start	864	End	1219
GI	none	Score	128
Exons	864..911, 903..1076, 904..1086, 1067..1219, 1071..1205		

Seq. No.	45127	Seq. ID	OJ000221_03.0403.C12
Gene No.	95362	Strand	-
Start	93	End	5063
Name	OJ000221_03.0403.C12.o7.tw	Method	TBLASTX:Wheat
Start	1400	End	1663
GI	none	Score	59
Exons	1400..1663, 1460..1630, 1524..1658		

Seq. No.	45127	Seq. ID	OJ000221_03.0403.C12
Gene No.	95362	Strand	-
Start	93	End	5063
Name	OJ000221_03.0403.C12.o2.ts	Method	TBLASTX:Soybean
Start	1566	End	1953
GI	none	Score	121
Exons	1566..1814, 1568..1810, 1737..1817, 1849..1953, 1850..1945		

Seq. No.	45127	Seq. ID	OJ000221_03.0403.C12
Gene No.	95362	Strand	-
Start	93	End	5063
Name	OJ000221_03.0403.C12.o4.tw	Method	TBLASTX:Wheat
Start	1664	End	2091
GI	none	Score	120
Exons	1664..1810, 1665..1811, 1670..1822, 1834..2091, 1841..2074		

Seq. No.	45127	Seq. ID	OJ000221_03.0403.C12
Gene No.	95362	Strand	-
Start	93	End	5063
Name	OJ000221_03.0403.C12.o2.tm	Method	TBLASTX:Maize
Start	2067	End	2511
GI	none	Score	128
Exons	2067..2093, 2091..2234, 2256..2510, 2256..2510, 2257..2511		

Seq. No.	45127	Seq. ID	OJ000221_03.0403.C12
Gene No.	95362	Strand	-
Start	93	End	5063
Name	OJ000221_03.0403.C12.o1.ts	Method	TBLASTX:Soybean
Start	2178	End	2570
GI	none	Score	103
Exons	2178..2570, 2247..2546, 2419..2562		

Seq. No.	45127	Seq. ID	OJ000221_03.0403.C12
Gene No.	95362	Strand	-
Start	93	End	5063
Name	OJ000221_03.0403.C12.o2.tw	Method	TBLASTX:Wheat
Start	2233	End	2657
GI	none	Score	263
Exons	2233..2613, 2238..2657		

Seq. No.	45127	Seq. ID	OJ000221_03.0403.C12
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Gene No.	95362	Strand	-
Start	93	End	5063
Name	OJ000221_03.0403.C12.o3.tm	Method	TBLASTX:Maize
Start	2742	End	3098
GI	none	Score	185
Exons	2742..3098, 2752..3057		

Seq. No.	45127	Seq. ID	OJ000221_03.0403.C12
Gene No.	95362	Strand	-
Start	93	End	5063
Name	OJ000221_03.0403.C12.o1.tw	Method	TBLASTX:Wheat
Start	2772	End	3228
GI	none	Score	275
Exons	2772..3227, 2773..3228		

Seq. No.	45127	Seq. ID	OJ000221_03.0403.C12
Gene No.	95362	Strand	-
Start	93	End	5063
Name	OJ000221_03.0403.C12.o3.ts	Method	TBLASTX:Soybean
Start	2823	End	3188
GI	none	Score	134
Exons	2823..2957, 2964..3188		

Seq. No.	45127	Seq. ID	OJ000221_03.0403.C12
Gene No.	95362	Strand	-
Start	93	End	5063
Name	OJ000221_03.0403.C12.o6.tw	Method	TBLASTX:Wheat
Start	3228	End	3905
GI	none	Score	161
Exons	3228..3344, 3448..3684, 3450..3680, 3729..3905		

Seq. No.	45127	Seq. ID	OJ000221_03.0403.C12
Gene No.	95362	Strand	-
Start	93	End	5063
Name	OJ000221_03.0403.C12.o2.np	Method	AAT/NAP
Start	3240	End	4003
GI	5902444	Score	1114
Exons	3240..4003		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	45127	Seq. ID	OJ000221_03.0403.C12
Gene No.	95362	Strand	-
Start	93	End	5063
Name	OJ000221_03.0403.C12.o3.np	Method	AAT/NAP
Start	4170	End	5063
GI	6983857	Score	410
Exons	4170..4470, 4533..4603, 4635..5063		
GI Descrip.	(AP001168) hypothetical protein [Oryza sativa]		

Seq. No.	45128	Seq. ID	OJ000221_03.0403.C13
Gene No.	95363	Strand	+
Start	8544	End	8787
Name	OJ000221_03.0403.C13.o3.np	Method	AAT/NAP
Start	8544	End	8787
GI	4584355	Score	191
Exons	8544..8787		
GI Descrip.	(AC006420) Ac-like transposase [Arabidopsis thaliana]		

Seq. No.	45128	Seq. ID	OJ000221_03.0403.C13
Gene No.	95364	Strand	-
Start	1	End	5211
Name	OJ000221_03.0403.C13.o2.np	Method	AAT/NAP
Start	1	End	5211
GI	5922631	Score	193
Exons	1..19, 2723..2895, 5183..5211		
GI Descrip.	(AP000492) ESTs C26347(C12145), AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativa] gi 6016864 dbj BAA85207.1  (AP000570) ESTs C26347(C12145), AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativ		

Seq. No.	45128	Seq. ID	OJ000221_03.0403.C13
Gene No.	95364	Strand	-
Start	1	End	5211
Name	OJ000221_03.0403.C13.o1.gs	Method	GENSCAN
Start	32	End	4159
GI	none	Score	.75
Exons	32..478, 1725..1882, 2725..2925, 3720..3830, 4096..4159		

Seq. No.	45128	Seq. ID	OJ000221_03.0403.C13
Gene No.	95364	Strand	-
Start	1	End	5211
Name	OJ000221_03.0403.C13.o1.np	Method	AAT/NAP
Start	424	End	1862
GI	6907088	Score	1079
Exons	424..815, 1312..1549, 1725..1862		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	45128	Seq. ID	OJ000221_03.0403.C13
Gene No.	95365	Strand	-
Start	5639	End	7691
Name	OJ000221_03.0403.C13.o2.gs	Method	GENSCAN
Start	5639	End	7691
GI	none	Score	.99
Exons	5639..5695, 6968..7245, 7388..7691		

Seq. No.	45128	Seq. ID	OJ000221_03.0403.C13
Gene No.	95366	Strand	-
Start	9083	End	9857
Name	OJ000221_03.0403.C13.o1.tm	Method	TBLASTX:Maize
Start	7381	End	7650
GI	none	Score	95
Exons	7381..7470, 7386..7478, 7566..7649, 7567..7650		

Seq. No.	45128	Seq. ID	OJ000221_03.0403.C13
Gene No.	95366	Strand	-
Start	9083	End	9857
Name	OJ000221_03.0403.C13.o3.gs	Method	GENSCAN
Start	9083	End	9857
GI	none	Score	.75
Exons	9083..9088, 9340..9501, 9627..9857		

Seq. No.	45129	Seq. ID	OJ000221_03.0403.C14
Gene No.	95367	Strand	+
Start	61	End	3524
Name	OJ000221_03.0403.C14.o1.gs	Method	GENSCAN
Start	61	End	3163
GI	none	Score	.71
Exons	61..331, 1602..1683, 2737..3163		

Seq. No.	45129	Seq. ID	OJ000221_03.0403.C14
Gene No.	95367	Strand	+
Start	61	End	3524
Name	OJ000221_03.0403.C14.o1.np	Method	AAT/NAP
Start	94	End	3070
GI	6358788	Score	838
Exons	94..196, 310..331, 1449..1505, 1602..1683, 2314..2409, 2518..2642, 2737..2755, 2843..2977, 3014..3070		
GI Descrip.	(AC010852) unknown protein [Arabidopsis thaliana]		

Seq. No.	45129	Seq. ID	OJ000221_03.0403.C14
Gene No.	95367	Strand	+
Start	61	End	3524
Name	OJ000221_03.0403.C14.o1.gp	Method	AAT/GAP
Start	1538	End	3524
GI	29167_1.R1084	Score	1727
Exons	1538..1592, 1619..1683, 2314..2409, 2518..2642, 2843..3524		
GI Descrip.	'3451072/emb CAA20468.1  2.0e-35 (AL031326) putative protein [Arabidopsis thaliana]'		

Seq. No.	45129	Seq. ID	OJ000221_03.0403.C14
Gene No.	95368	Strand	-
Start	3695	End	9213
Name	OJ000221_03.0403.C14.o2.gs	Method	GENSCAN
Start	3695	End	9213
GI	none	Score	.68
Exons	3695..3782, 4118..4228, 4657..4790, 5040..5171, 5708..5901, 8558..8678, 8878..9213		

Seq. No.	45129	Seq. ID	OJ000221_03.0403.C14
Gene No.	95368	Strand	-
Start	3695	End	9213
Name	OJ000221_03.0403.C14.o2.gp	Method	AAT/GAP
Start	4234	End	9036
GI	40_1.R1084	Score	2406
Exons	4234..4547, 4657..4790, 5040..5171, 5708..5901, 8558..9036		
GI Descrip.	'4887620/dbj BAA77823.1  1.0e-104 (AB007629) homeobox gene [Oryza sativa]'		

Seq. No.	45129	Seq. ID	OJ000221_03.0403.C14
Gene No.	95368	Strand	-
Start	3695	End	9213
Name	OJ000221_03.0403.C14.o2.np	Method	AAT/NAP
Start	4656	End	8684
GI	4887620	Score	941
Exons	4656..4790, 5040..5171, 5708..5901, 8558..8684		
GI Descrip.	(AB007629) homeobox gene [Oryza sativa]		

Seq. No.	45129	Seq. ID	OJ000221_03.0403.C14
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Gene No.	95369	Strand	-
Start	9187	End	9660
Name	OJ000221_03.0403.C14.o3.gp	Method	AAT/GAP
Start	9187	End	9660
GI	none	Score	908
Exons	9187..9660		

Seq. No.	45129	Seq. ID	OJ000221_03.0403.C14
Gene No.	95370	Strand	-
Start	11325	End	12794
Name	OJ000221_03.0403.C14.o1.tc	Method	TBLASTX:Cress
Start	93	End	2409
GI	none	Score	128
Exons	93..194, 94..195, 1438..1506, 1448..1507, 1449..1508, 1450..1509, 1599..1685, 1600..1686, 2311..2409, 2313..2408		

Seq. No.	45129	Seq. ID	OJ000221_03.0403.C14
Gene No.	95370	Strand	-
Start	11325	End	12794
Name	OJ000221_03.0403.C14.o1.ts	Method	TBLASTX:Soybean
Start	100	End	3065
GI	none	Score	114
Exons	100..195, 102..194, 1423..1506, 1424..1507, 1441..1509, 1599..1685, 1600..1686, 2311..2409, 2313..2408, 2327..2410, 2517..2639, 2518..2643, 2521..2643, 2717..2755, 2837..2887, 2839..2919, 2887..2976, 2896..2955, 2897..3064, 2898..3065		

Seq. No.	45129	Seq. ID	OJ000221_03.0403.C14
Gene No.	95370	Strand	-
Start	11325	End	12794
Name	OJ000221_03.0403.C14.o2.tm	Method	TBLASTX:Maize
Start	2587	End	3165
GI	none	Score	76
Exons	2587..2637, 2589..2639, 2591..2644, 2738..2755, 2835..3014, 2839..2952, 2940..3071, 2948..3016, 3014..3058, 3055..3102, 3065..3115, 3067..3153, 3082..3165, 3124..3147		

Seq. No.	45129	Seq. ID	OJ000221_03.0403.C14
Gene No.	95370	Strand	-
Start	11325	End	12794
Name	OJ000221_03.0403.C14.o1.tm	Method	TBLASTX:Maize
Start	4620	End	5887
GI	none	Score	143
Exons	4620..4790, 4654..4761, 4655..4792, 5038..5175, 5038..5172, 5040..5174, 5707..5766, 5708..5857, 5747..5878, 5849..5887		

Seq. No.	45129	Seq. ID	OJ000221_03.0403.C14
Gene No.	95370	Strand	-
Start	11325	End	12794
Name	OJ000221_03.0403.C14.o1.tw	Method	TBLASTX:Wheat
Start	4647	End	5815
GI	none	Score	82
Exons	4647..4790, 4681..4761, 4692..4790, 4830..4859, 4996..5175, 5040..5174, 5708..5791, 5777..5815		

Seq. No.	45129	Seq. ID	OJ000221_03.0403.C14
Gene No.	95370	Strand	-

Start	11325	End	12794
Name	OJ000221_03.0403.C14.o2.tc	Method	TBLASTX:Cress
Start	4656	End	9079
GI	none	Score	98
Exons	4656..4790, 4693..4761, 4993..5175, 5040..5174, 5708..5800, 5849..5905, 8556..8672, 8568..8678, 8935..9078, 8960..9079		

Seq. No.	45129	Seq. ID	OJ000221_03.0403.C14
Gene No.	95370	Strand	-
Start	11325	End	12794
Name	OJ000221_03.0403.C14.o3.ts	Method	TBLASTX:Soybean
Start	4656	End	5812
GI	none	Score	112
Exons	4656..4697, 4683..4790, 4690..4761, 4692..4787, 5038..5175, 5040..5174, 5708..5812		

Seq. No.	45129	Seq. ID	OJ000221_03.0403.C14
Gene No.	95370	Strand	-
Start	11325	End	12794
Name	OJ000221_03.0403.C14.o2.ts	Method	TBLASTX:Soybean
Start	5849	End	9082
GI	none	Score	69
Exons	5849..5905, 8556..8678, 8557..8679, 8860..9081, 8879..9082		

Seq. No.	45129	Seq. ID	OJ000221_03.0403.C14
Gene No.	95370	Strand	-
Start	11325	End	12794
Name	OJ000221_03.0403.C14.o3.gs	Method	GENSCAN
Start	11325	End	12794
GI	none	Score	.93
Exons	11325..11470, 12755..12794		

Seq. No.	45130	Seq. ID	OJ000221_03.0403.C15
Gene No.	95371	Strand	-
Start	714	End	1282
Name	OJ000221_03.0403.C15.o1.gs	Method	GENSCAN
Start	714	End	1282
GI	none	Score	.49
Exons	714..830, 1181..1282		

Seq. No.	45131	Seq. ID	OJ000221_03.0403.C17
Gene No.	95372	Strand	+
Start	11532	End	15326
Name	OJ000221_03.0403.C17.o4.np	Method	AAT/NAP
Start	11532	End	14770
GI	5852093	Score	79
Exons	11532..11572, 12924..13023, 13895..13938, 14744..14770		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	45131	Seq. ID	OJ000221_03.0403.C17
Gene No.	95372	Strand	+
Start	11532	End	15326
Name	OJ000221_03.0403.C17.o6.np	Method	AAT/NAP
Start	13811	End	15281
GI	2226370	Score	85
Exons	13811..13832, 15046..15281		
GI Descrip.	(AF005359) RNA-binding protein [Nicotiana glutinosa]		

Seq. No.	45131	Seq. ID	OJ000221_03.0403.C17
Gene No.	95372	Strand	+
Start	11532	End	15326
Name	OJ000221_03.0403.C17.o4.gs	Method	GENSCAN
Start	14970	End	15326
GI	none	Score	.61
Exons	14970..15016, 15053..15326		

Seq. No.	45131	Seq. ID	OJ000221_03.0403.C17
Gene No.	95373	Strand	-
Start	1	End	2553
Name	OJ000221_03.0403.C17.o1.np	Method	AAT/NAP
Start	1	End	2457
GI	7486584	Score	1089
Exons	1..21, 362..560, 661..723, 844..1023, 1425..1529, 1610..1732, 1942..2115, 2161..2238, 2284..2457		
GI Descrip.	hypothetical protein F7H19.90 - Arabidopsis thaliana gi 3292816 emb CAA19806.1  (AL031018) putative fizzy-related protein [Arabidopsis thaliana] gi 7269138 emb CAB79246.1  (AL161558) putative fizzy-related protein [Arabidopsis thaliana]		

Seq. No.	45131	Seq. ID	OJ000221_03.0403.C17
Gene No.	95373	Strand	-
Start	1	End	2553
Name	OJ000221_03.0403.C17.o1.gs	Method	GENSCAN
Start	366	End	2553
GI	none	Score	.9
Exons	366..560, 661..723, 844..1023, 1610..1732, 1942..2553		

Seq. No.	45131	Seq. ID	OJ000221_03.0403.C17
Gene No.	95374	Strand	-
Start	3511	End	7393
Name	OJ000221_03.0403.C17.o2.gs	Method	GENSCAN
Start	3511	End	7345
GI	none	Score	.55
Exons	3511..3673, 6065..6256, 6347..6393, 6980..7345		

Seq. No.	45131	Seq. ID	OJ000221_03.0403.C17
Gene No.	95374	Strand	-
Start	3511	End	7393
Name	OJ000221_03.0403.C17.o2.np	Method	AAT/NAP
Start	5912	End	7338
GI	7019667	Score	195
Exons	5912..6305, 6981..7235, 7266..7338		
GI Descrip.	(AL132954) putative protein [Arabidopsis thaliana]		

Seq. No.	45131	Seq. ID	OJ000221_03.0403.C17
Gene No.	95374	Strand	-
Start	3511	End	7393
Name	OJ000221_03.0403.C17.o1.gp	Method	AAT/GAP
Start	7186	End	7393
GI	5003363	Score	357
Exons	7186..7393		

Seq. No.	45131	Seq. ID	OJ000221_03.0403.C17
Gene No.	95375	Strand	-

Start	8835	End	15464
Name	OJ000221_03.0403.C17.o1.ts	Method	TBLASTX:Soybean
Start	361	End	1624
GI	none	Score	99
Exons	361..558, 363..563, 365..475, 366..551, 469..555, 658..726, 660..734, 662..742, 841..1023, 842..1018, 1363..1530, 1393..1530, 1422..1532, 1422..1532, 1598..1624		

Seq. No.	45131	Seq. ID	OJ000221_03.0403.C17
Gene No.	95375	Strand	-
Start	8835	End	15464
Name	OJ000221_03.0403.C17.o2.tm	Method	TBLASTX:Maize
Start	361	End	970
GI	none	Score	213
Exons	361..555, 363..560, 364..555, 664..726, 665..724, 841..936, 841..921, 923..970		

Seq. No.	45131	Seq. ID	OJ000221_03.0403.C17
Gene No.	95375	Strand	-
Start	8835	End	15464
Name	OJ000221_03.0403.C17.o5.tm	Method	TBLASTX:Maize
Start	1422	End	1727
GI	none	Score	65
Exons	1422..1532, 1429..1530, 1598..1642, 1649..1726, 1659..1727		

Seq. No.	45131	Seq. ID	OJ000221_03.0403.C17
Gene No.	95375	Strand	-
Start	8835	End	15464
Name	OJ000221_03.0403.C17.o2.tw	Method	TBLASTX:Wheat
Start	5907	End	6060
GI	none	Score	124
Exons	5907..6053, 5908..6060, 5908..6060		

Seq. No.	45131	Seq. ID	OJ000221_03.0403.C17
Gene No.	95375	Strand	-
Start	8835	End	15464
Name	OJ000221_03.0403.C17.o3.tm	Method	TBLASTX:Maize
Start	5908	End	6108
GI	none	Score	161
Exons	5908..6108, 5911..6096, 5958..6098		

Seq. No.	45131	Seq. ID	OJ000221_03.0403.C17
Gene No.	95375	Strand	-
Start	8835	End	15464
Name	OJ000221_03.0403.C17.o4.tm	Method	TBLASTX:Maize
Start	6963	End	7435
GI	none	Score	152
Exons	6963..7139, 6980..7138, 7044..7139, 7240..7317, 7250..7348, 7251..7265, 7376..7435		

Seq. No.	45131	Seq. ID	OJ000221_03.0403.C17
Gene No.	95375	Strand	-
Start	8835	End	15464
Name	OJ000221_03.0403.C17.o2.gp	Method	AAT/GAP
Start	8748	End	11530
GI	714_1.R1084	Score	921
Exons	8748..8897, 9009..9122, 9205..9357, 11447..11530		

GI Descrip. '1174162 2.0e-75 (U44976) ubiquitin-conjugating enzyme  
[Arabidopsis thaliana] >gi\_3746915 (AF091106) E2  
ubiquitin-conjugating-like enzyme [Arabidopsis thaliana]'

Seq. No.	45131	Seq. ID	OJ000221_03.0403.C17
Gene No.	95375	Strand	-
Start	8835	End	15464
Name	OJ000221_03.0403.C17.o1.tm	Method	TBLASTX:Maize
Start	8787	End	11709
GI	none	Score	49
Exons	8787..8822, 8787..8822, 8822..8908, 8832..8909, 8833..8898, 9007..9123, 9007..9120, 9009..9122, 9187..9357, 9198..9359, 9205..9357, 9206..9358, 11446..11502, 11447..11536, 11447..11536, 11611..11709		

Seq. No.	45131	Seq. ID	OJ000221_03.0403.C17
Gene No.	95375	Strand	-
Start	8835	End	15464
Name	OJ000221_03.0403.C17.o1.tc	Method	TBLASTX:Cress
Start	8813	End	11709
GI	none	Score	64
Exons	8813..8899, 8835..8900, 8839..8898, 9007..9120, 9009..9122, 9016..9126, 9208..9357, 9218..9358, 9230..9358, 11447..11536, 11448..11537, 11641..11709		

Seq. No.	45131	Seq. ID	OJ000221_03.0403.C17
Gene No.	95375	Strand	-
Start	8835	End	15464
Name	OJ000221_03.0403.C17.o2.ts	Method	TBLASTX:Soybean
Start	8835	End	11700
GI	none	Score	69
Exons	8835..8909, 8845..8898, 9007..9123, 9007..9120, 9009..9122, 9205..9357, 9209..9358, 9221..9358, 11447..11536, 11448..11552, 11611..11700		

Seq. No.	45131	Seq. ID	OJ000221_03.0403.C17
Gene No.	95375	Strand	-
Start	8835	End	15464
Name	OJ000221_03.0403.C17.o3.gs	Method	GENSCAN
Start	8835	End	13448
GI	none	Score	.8
Exons	8835..8897, 9009..9122, 9205..9357, 11411..11530, 13443..13448		

Seq. No.	45131	Seq. ID	OJ000221_03.0403.C17
Gene No.	95375	Strand	-
Start	8835	End	15464
Name	OJ000221_03.0403.C17.o1.tw	Method	TBLASTX:Wheat
Start	8836	End	11703
GI	none	Score	88
Exons	8836..8898, 8838..8909, 8980..9120, 9007..9123, 9009..9122, 9205..9357, 9208..9357, 9212..9358, 9213..9359, 11446..11505, 11447..11533, 11447..11536, 11448..11537, 11641..11703		

Seq. No.	45131	Seq. ID	OJ000221_03.0403.C17
Gene No.	95375	Strand	-
Start	8835	End	15464
Name	OJ000221_03.0403.C17.o3.np	Method	AAT/NAP

Start	8838	End	11709
GI	1174162	Score	692
Exons	8838..8897, 9009..9122, 9205..9357, 11447..11530, 11641..11709		
GI Descrip.	(U44976) ubiquitin-conjugating enzyme [Arabidopsis thaliana] gi 3746915 (AF091106) E2 ubiquitin-conjugating-like enzyme [Arabidopsis thaliana] gi 6729530 emb CAB67615.1  (AL132977) E2 ubiquitin-conjugating-like enzyme Ahus5 [Arabidopsis thaliana]		

Seq. No.	45131	Seq. ID	OJ000221_03.0403.C17
Gene No.	95375	Strand	-
Start	8835	End	15464
Name	OJ000221_03.0403.C17.o5.np	Method	AAT/NAP
Start	12244	End	15464
GI	5852093	Score	58
Exons	12244..12266, 13039..13110, 13982..14086, 15386..15464		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	45132	Seq. ID	OJ000251_40.0303.C1
Gene No.	95376	Strand	+
Start	1	End	1209
Name	OJ000251_40.0303.C1.o1.np	Method	AAT/NAP
Start	1	End	1111
GI	6907088	Score	835
Exons	1..214, 714..1111		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	45132	Seq. ID	OJ000251_40.0303.C1
Gene No.	95376	Strand	+
Start	1	End	1209
Name	OJ000251_40.0303.C1.o1.gs	Method	GENSCAN
Start	845	End	1209
GI	none	Score	.94
Exons	845..901, 1057..1209		

Seq. No.	45133	Seq. ID	OJ000251_40.0303.C4
Gene No.	95377	Strand	-
Start	372	End	782
Name	OJ000251_40.0303.C4.o1.gs	Method	GENSCAN
Start	372	End	782
GI	none	Score	.62
Exons	372..479, 771..782		

Seq. No.	45134	Seq. ID	OJ000251_40.0303.C5
Gene No.	95378	Strand	+
Start	180	End	675
Name	OJ000251_40.0303.C5.o1.np	Method	AAT/NAP
Start	180	End	675
GI	7339719	Score	133
Exons	180..244, 551..675		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	45135	Seq. ID	OJ000251_40.0303.C9
Gene No.	95379	Strand	+
Start	1696	End	1797
Name	OJ000251_40.0303.C9.o1.gs	Method	GENSCAN
Start	1696	End	1797
GI	none	Score	.56

Exons 1696..1797

Seq. No.	45135	Seq. ID	OJ000251_40.0303.C9
Gene No.	95380	Strand	-
Start	812	End	2179
Name	OJ000251_40.0303.C9.o1.np	Method	AAT/NAP
Start	812	End	2179
GI	5852084	Score	76
Exons	812..895, 2154..2179		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	45136	Seq. ID	OJ000251_40.0303.C10
Gene No.	95381	Strand	+
Start	2082	End	2411
Name	OJ000251_40.0303.C10.o2.gs	Method	GENSCAN
Start	2082	End	2411
GI	none	Score	.96
Exons	2082..2411		

Seq. No.	45136	Seq. ID	OJ000251_40.0303.C10
Gene No.	95382	Strand	-
Start	429	End	921
Name	OJ000251_40.0303.C10.o1.gs	Method	GENSCAN
Start	429	End	921
GI	none	Score	.4
Exons	429..637, 747..921		

Seq. No.	45136	Seq. ID	OJ000251_40.0303.C10
Gene No.	95383	Strand	-
Start	3344	End	5061
Name	OJ000251_40.0303.C10.o3.gs	Method	GENSCAN
Start	3344	End	5061
GI	none	Score	.62
Exons	3344..3462, 3964..4249, 4870..5061		

Seq. No.	45136	Seq. ID	OJ000251_40.0303.C10
Gene No.	95383	Strand	-
Start	3344	End	5061
Name	OJ000251_40.0303.C10.o2.gp	Method	AAT/GAP
Start	4086	End	4170
GI	5003295	Score	136
Exons	4086..4170		
GI Descrip.	2914703 6.0e-09 (AC003974) unknown protein [Arabidopsis thaliana]		

Seq. No.	45137	Seq. ID	OJ000251_40.0303.C11
Gene No.	95384	Strand	-
Start	1	End	622
Name	OJ000251_40.0303.C11.o1.gp	Method	AAT/GAP
Start	1	End	622
GI	426661	Score	591
Exons	1..106, 258..329, 458..622		

Seq. No.	45137	Seq. ID	OJ000251_40.0303.C11
Gene No.	95384	Strand	-
Start	1	End	622
Name	OJ000251_40.0303.C11.o1.gs	Method	GENSCAN

Start	458	End	555
GI	none	Score	.99
Exons	458..555		

Seq. No.	45138	Seq. ID	OJ000251_40.0303.C14
Gene No.	95385	Strand	
Start	182	End	714
Name	OJ000251_40.0303.C14.o1.tm	Method	TBLASTX:Maize
Start	182	End	615
GI	none	Score	115
Exons	182..367, 190..261, 401..508, 556..615		

Seq. No.	45138	Seq. ID	OJ000251_40.0303.C14
Gene No.	95385	Strand	
Start	182	End	714
Name	OJ000251_40.0303.C14.o1.tw	Method	TBLASTX:Wheat
Start	332	End	714
GI	none	Score	103
Exons	332..505, 469..534, 550..714, 555..602, 589..705		

Seq. No.	45139	Seq. ID	OJ000251_40.0303.C15
Gene No.	95386	Strand	-
Start	867	End	1627
Name	OJ000251_40.0303.C15.o1.gs	Method	GENSCAN
Start	867	End	1627
GI	none	Score	.88
Exons	867..913, 1441..1627		

Seq. No.	45140	Seq. ID	OJ000251_40.0303.C16
Gene No.	95387	Strand	+
Start	392	End	476
Name	OJ000251_40.0303.C16.o1.gp	Method	AAT/GAP
Start	392	End	476
GI	3760640	Score	102
Exons	392..476		
GI Descrip.	4176420/dbj BAA37167  2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	45140	Seq. ID	OJ000251_40.0303.C16
Gene No.	95388	Strand	+
Start	674	End	774
Name	OJ000251_40.0303.C16.o1.gs	Method	GENSCAN
Start	674	End	774
GI	none	Score	.56
Exons	674..774		

Seq. No.	45140	Seq. ID	OJ000251_40.0303.C16
Gene No.	95389	Strand	+
Start	2128	End	2295
Name	OJ000251_40.0303.C16.o2.gp	Method	AAT/GAP
Start	2128	End	2295
GI	87968_1.R1084	Score	310
Exons	2128..2295		
GI Descrip.	'4176420/dbj BAA37167  2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	45141	Seq. ID	OJ000251_40.0303.C17
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Gene No.	95390	Strand	+
Start	106	End	178
Name	OJ000251_40.0303.C17.o1.gs	Method	GENSCAN
Start	106	End	178
GI	none	Score	.49
Exons	106..178		
Seq. No.	45142	Seq. ID	OJ000251_40.0303.C19
Gene No.	95391	Strand	+
Start	18	End	98
Name	OJ000251_40.0303.C19.o1.gs	Method	GENSCAN
Start	18	End	98
GI	none	Score	1
Exons	18..98		
Seq. No.	45143	Seq. ID	OJ000251_40.0303.C20
Gene No.	95392	Strand	
Start	32	End	319
Name	OJ000251_40.0303.C20.o1.tm	Method	TBLASTX:Maize
Start	32	End	319
GI	none	Score	94
Exons	32..127, 122..319, 132..284		
Seq. No.	45144	Seq. ID	OJ000251_40.0303.C21
Gene No.	95393	Strand	+
Start	785	End	2715
Name	OJ000251_40.0303.C21.o1.gs	Method	GENSCAN
Start	785	End	2715
GI	none	Score	.7
Exons	785..952, 1511..1631, 1764..1896, 1966..2137, 2200..2715		
Seq. No.	45145	Seq. ID	OJ000251_40.0303.C22
Gene No.	95394	Strand	+
Start	59	End	172
Name	OJ000251_40.0303.C22.o1.gs	Method	GENSCAN
Start	59	End	172
GI	none	Score	.61
Exons	59..172		
Seq. No.	45146	Seq. ID	OJ000251_40.0303.C24
Gene No.	95395	Strand	+
Start	15	End	447
Name	OJ000251_40.0303.C24.o1.gs	Method	GENSCAN
Start	15	End	447
GI	none	Score	.86
Exons	15..225, 389..447		
Seq. No.	45146	Seq. ID	OJ000251_40.0303.C24
Gene No.	95396	Strand	-
Start	745	End	3416
Name	OJ000251_40.0303.C24.o2.gs	Method	GENSCAN
Start	745	End	3416
GI	none	Score	.71
Exons	745..879, 1845..2024, 2651..2830, 2953..2969, 3214..3416		
Seq. No.	45147	Seq. ID	OJ000251_40.0303.C25
Gene No.	95397	Strand	+

Start	220	End	955
Name	OJ000251_40.0303.C25.o1.gs	Method	GENSCAN
Start	220	End	955
GI	none	Score	.76
Exons	220..379, 765..955		

Seq. No.	45148	Seq. ID	OJ000251_40.0303.C26
Gene No.	95398	Strand	-
Start	11	End	434
Name	OJ000251_40.0303.C26.o1.gs	Method	GENSCAN
Start	11	End	434
GI	none	Score	.97
Exons	11..434		

Seq. No.	45149	Seq. ID	OJ000251_40.0303.C30
Gene No.	95399	Strand	-
Start	241	End	5867
Name	OJ000251_40.0303.C30.o1.gs	Method	GENSCAN
Start	241	End	4024
GI	none	Score	.61
Exons	241..294, 1711..1847, 2155..2254, 2333..2397, 2863..3057, 3074..3166, 3967..4024		

Seq. No.	45149	Seq. ID	OJ000251_40.0303.C30
Gene No.	95399	Strand	-
Start	241	End	5867
Name	OJ000251_40.0303.C30.o1.np	Method	AAT/NAP
Start	1016	End	5867
GI	5306245	Score	39
Exons	1016..1125, 1935..2044, 2561..2965, 3079..3153, 5847..5867		
GI Descrip.	(AC006438) unknown protein [Arabidopsis thaliana]		

Seq. No.	45150	Seq. ID	OJ000251_40.0303.C32
Gene No.	95400	Strand	+
Start	1	End	472
Name	OJ000251_40.0303.C32.o1.np	Method	AAT/NAP
Start	1	End	469
GI	6006375	Score	540
Exons	1..469		
GI Descrip.	(AP000559) Similar to ORF3 protein - rice tungro bacilliform virus &RTUORFS_2 (C40785) [Oryza sativa]		

Seq. No.	45150	Seq. ID	OJ000251_40.0303.C32
Gene No.	95400	Strand	+
Start	1	End	472
Name	OJ000251_40.0303.C32.o1.gs	Method	GENSCAN
Start	320	End	472
GI	none	Score	.65
Exons	320..472		

Seq. No.	45151	Seq. ID	OJ000251_40.0303.C33
Gene No.	95401	Strand	+
Start	174	End	316
Name	OJ000251_40.0303.C33.o1.np	Method	AAT/NAP
Start	174	End	316
GI	7340868	Score	48
Exons	174..316		

GI Descrip. (AP001551) hypothetical protein [Oryza sativa]

Seq. No.	45152	Seq. ID	OJ000251_40.0303.C35
Gene No.	95402	Strand	+
Start	1	End	1423
Name	OJ000251_40.0303.C35.o1.np	Method	AAT/NAP
Start	1	End	1423
GI	4512705	Score	123

Exons 1..370, 1252..1423

GI Descrip. (AC006569) putative protein kinase [Arabidopsis thaliana]

Seq. No.	45152	Seq. ID	OJ000251_40.0303.C35
Gene No.	95402	Strand	+
Start	1	End	1423
Name	OJ000251_40.0303.C35.o1.ts	Method	TBLASTX:Soybean
Start	9	End	445
GI	none	Score	188
Exons	9..173, 23..172, 297..425, 338..445		

Seq. No.	45152	Seq. ID	OJ000251_40.0303.C35
Gene No.	95402	Strand	+
Start	1	End	1423
Name	OJ000251_40.0303.C35.o1.gs	Method	GENSCAN
Start	123	End	999
GI	none	Score	.88
Exons	123..463, 903..999		

Seq. No.	45152	Seq. ID	OJ000251_40.0303.C35
Gene No.	95402	Strand	+
Start	1	End	1423
Name	OJ000251_40.0303.C35.o1.tm	Method	TBLASTX:Maize
Start	140	End	487
GI	none	Score	447
Exons	140..487, 141..470		

Seq. No.	45152	Seq. ID	OJ000251_40.0303.C35
Gene No.	95402	Strand	+
Start	1	End	1423
Name	OJ000251_40.0303.C35.o1.gp	Method	AAT/GAP
Start	492	End	850
GI	70388_1.R1084	Score	682
Exons	492..850		

GI Descrip. '4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'

Seq. No.	45153	Seq. ID	OJ000251_40.0303.C36
Gene No.	95403	Strand	+
Start	1221	End	1335
Name	OJ000251_40.0303.C36.o1.gs	Method	GENSCAN
Start	1221	End	1335
GI	none	Score	.8
Exons	1221..1335		

Seq. No.	45154	Seq. ID	OJ000251_40.0303.C37
Gene No.	95404	Strand	-
Start	339	End	625
Name	OJ000251_40.0303.C37.o1.gs	Method	GENSCAN

Start 339  
 GI none  
 Exons 339..385, 580..625

End 625  
 Score .95

Seq. No. 45154  
 Gene No. 95405  
 Start 2286  
 Name OJ000251\_40.0303.C37.o1.gp  
 Start 1900  
 GI 2280715  
 Exons 1900..2311

Seq. ID OJ000251\_40.0303.C37  
 Strand -  
 End 2738  
 Method AAT/GAP  
 End 2311  
 Score 820

Seq. No. 45154  
 Gene No. 95405  
 Start 2286  
 Name OJ000251\_40.0303.C37.o2.gs  
 Start 2286  
 GI none  
 Exons 2286..2738

Seq. ID OJ000251\_40.0303.C37  
 Strand -  
 End 2738  
 Method GENSCAN  
 End 2738  
 Score .66

Seq. No. 45155  
 Gene No. 95406  
 Start 1  
 Name OJ000251\_40.0303.C38.o1.np  
 Start 1  
 GI 7488224  
 Exons 1..179, 266..665, 739..890

Seq. ID OJ000251\_40.0303.C38  
 Strand -  
 End 890  
 Method AAT/NAP  
 End 890  
 Score 715

GI Descrip. probable zinc finger protein T10P11.4 - Arabidopsis thaliana  
 gi|3892045|gb|AAC78253.1|AAC78253 (AC002330) putative zinc  
 finger protein [Arabidopsis thaliana] gi|7269752|emb|CAB77752.1|  
 (AL161495) putative zinc finger protein [Arabidopsis thaliana]

Seq. No. 45155  
 Gene No. 95406  
 Start 1  
 Name OJ000251\_40.0303.C38.o1.gs  
 Start 98  
 GI none  
 Exons 98..260, 266..665, 739..838

Seq. ID OJ000251\_40.0303.C38  
 Strand -  
 End 890  
 Method GENSCAN  
 End 838  
 Score .77

Seq. No. 45155  
 Gene No. 95406  
 Start 1  
 Name OJ000251\_40.0303.C38.o1.tc  
 Start 143  
 GI none  
 Exons 143..181, 271..372, 278..373,  
 491..547, 544..588, 557..589,

Seq. ID OJ000251\_40.0303.C38  
 Strand -  
 End 890  
 Method TBLASTX:Cress  
 End 666  
 Score 120  
 365..514, 370..498, 490..588,  
 583..666, 584..664

Seq. No. 45155  
 Gene No. 95406  
 Start 1  
 Name OJ000251\_40.0303.C38.o1.tm  
 Start 143  
 GI none  
 Exons 143..181, 143..181, 271..507,  
 729..812

Seq. ID OJ000251\_40.0303.C38  
 Strand -  
 End 890  
 Method TBLASTX:Maize  
 End 812  
 Score 52

Seq. No.	45155	Seq. ID	OJ000251_40.0303.C38
Gene No.	95406	Strand	-
Start	1	End	890
Name	OJ000251_40.0303.C38.ol.ts	Method	TBLASTX:Soybean
Start	286	End	625
GI	none	Score	221
Exons	286..495, 287..514, 490..624, 491..625		

Seq. No.	45156	Seq. ID	OJ000251_40.0303.C41
Gene No.	95407	Strand	-
Start	1009	End	1874
Name	OJ000251_40.0303.C41.ol.np	Method	AAT/NAP
Start	579	End	1874
GI	4680341	Score	575
Exons	579..633, 941..1304, 1363..1446, 1472..1561, 1847..1874		
GI Descrip.	(AF128457) hypothetical protein [Oryza sativa subsp. indica]		

Seq. No.	45156	Seq. ID	OJ000251_40.0303.C41
Gene No.	95407	Strand	-
Start	1009	End	1874
Name	OJ000251_40.0303.C41.ol.tw	Method	TBLASTX:Wheat
Start	615	End	1052
GI	none	Score	42
Exons	615..659, 643..702, 664..690, 816..887, 817..891, 817..897, 821..895, 885..944, 886..945, 892..984, 954..1052, 958..1005, 959..1051		

Seq. No.	45156	Seq. ID	OJ000251_40.0303.C41
Gene No.	95407	Strand	-
Start	1009	End	1874
Name	OJ000251_40.0303.C41.ol.gs	Method	GENSCAN
Start	1009	End	1753
GI	none	Score	.86
Exons	1009..1195, 1219..1460, 1532..1753		

Seq. No.	45157	Seq. ID	OJ000251_40.0303.C45
Gene No.	95408	Strand	+
Start	2129	End	12099
Name	OJ000251_40.0303.C45.ol.np	Method	AAT/NAP
Start	2129	End	7001
GI	7489397	Score	651
Exons	2129..2156, 5818..7001		
GI Descrip.	NBS-LRR type resistance protein - barley (fragment) gi 2792210 gb AAB96980.1  (AF032683) NBS-LRR type resistance protein [Hordeum vulgare]		

Seq. No.	45157	Seq. ID	OJ000251_40.0303.C45
Gene No.	95408	Strand	+
Start	2129	End	12099
Name	OJ000251_40.0303.C45.o2.np	Method	AAT/NAP
Start	5082	End	7627
GI	7489454	Score	769
Exons	5082..7627		
GI Descrip.	bacterial blight-resistance protein Xa1 - rice gi 2943742 dbj BAA25068.1  (AB002266) XA1 [Oryza sativa]		

Seq. No.	45157	Seq. ID	OJ000251_40.0303.C45
Gene No.	95408	Strand	+
Start	2129	End	12099
Name	OJ000251_40.0303.C45.o3.gs	Method	GENSCAN
Start	5124	End	12099
GI	none	Score	.55
Exons	5124..7437, 8392..9501, 9925..10141, 10331..10551, 11882..12099		

Seq. No.	45157	Seq. ID	OJ000251_40.0303.C45
Gene No.	95408	Strand	+
Start	2129	End	12099
Name	OJ000251_40.0303.C45.o3.np	Method	AAT/NAP
Start	9894	End	10739
GI	6069646	Score	452
Exons	9894..10739		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	45157	Seq. ID	OJ000251_40.0303.C45
Gene No.	95409	Strand	+
Start	18813	End	22650
Name	OJ000251_40.0303.C45.o5.np	Method	AAT/NAP
Start	18813	End	22650
GI	7489454	Score	866
Exons	18813..19633, 19707..21998, 22547..22650		
GI Descrip.	bacterial blight-resistance protein Xa1 - rice gi 2943742 dbj BAA25068.1  (AB002266) XA1 [Oryza sativa]		

Seq. No.	45157	Seq. ID	OJ000251_40.0303.C45
Gene No.	95410	Strand	+
Start	27692	End	28876
Name	OJ000251_40.0303.C45.o6.np	Method	AAT/NAP
Start	27692	End	28876
GI	7489397	Score	709
Exons	27692..28876		
GI Descrip.	NBS-LRR type resistance protein - barley (fragment) gi 2792210 gb AAB96980.1  (AF032683) NBS-LRR type resistance protein [Hordeum vulgare]		

Seq. No.	45157	Seq. ID	OJ000251_40.0303.C45
Gene No.	95411	Strand	+
Start	29444	End	29938
Name	OJ000251_40.0303.C45.o3.gp	Method	AAT/GAP
Start	29444	End	29938
GI	63917_1.R1084	Score	945
Exons	29444..29938		
GI Descrip.	'4521193/dbj AB013450.1 AB013450 3.0e-40 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	45157	Seq. ID	OJ000251_40.0303.C45
Gene No.	95412	Strand	+
Start	30619	End	30999
Name	OJ000251_40.0303.C45.o4.gp	Method	AAT/GAP
Start	30619	End	30999

GI LIB3434-043-P1-K1-D5 Score 477  
 Exons 30619..30999  
 GI Descrip. '5670155/gb|AF161269.1|AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'

Seq. No. 45157 Seq. ID OJ000251\_40.0303.C45  
 Gene No. 95413 Strand +  
 Start 35401 End 36836  
 Name OJ000251\_40.0303.C45.o9.np Method AAT/NAP  
 Start 35401 End 36836  
 GI 6907088 Score 1099  
 Exons 35401..35538, 35714..35951, 36451..36836  
 GI Descrip. (AP001129) hypothetical protein [Oryza sativa]

Seq. No. 45157 Seq. ID OJ000251\_40.0303.C45  
 Gene No. 95413 Strand +  
 Start 35401 End 36836  
 Name OJ000251\_40.0303.C45.o5.gp Method AAT/GAP  
 Start 36212 End 36409  
 GI 5667165 Score 322  
 Exons 36212..36409  
 GI Descrip. 5670155/gb|AF161269.1|AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence

Seq. No. 45157 Seq. ID OJ000251\_40.0303.C45  
 Gene No. 95414 Strand +  
 Start 36821 End 37697  
 Name OJ000251\_40.0303.C45.o10.np Method AAT/NAP  
 Start 36821 End 37697  
 GI 5734635 Score 237  
 Exons 36821..36925, 36979..37355, 37555..37697  
 GI Descrip. (AP000391) hypothetical protein [Oryza sativa]

Seq. No. 45157 Seq. ID OJ000251\_40.0303.C45  
 Gene No. 95415 Strand -  
 Start 70 End 504  
 Name OJ000251\_40.0303.C45.o1.gs Method GENSCAN  
 Start 70 End 504  
 GI none Score .97  
 Exons 70..240, 295..504

Seq. No. 45157 Seq. ID OJ000251\_40.0303.C45  
 Gene No. 95415 Strand -  
 Start 70 End 504  
 Name OJ000251\_40.0303.C45.o1.gp Method AAT/GAP  
 Start 295 End 398  
 GI 956\_1.R1084 Score 187  
 Exons 295..398  
 GI Descrip. '5815410/gb|AAD52659.1|AF177392\_1 0.0e+00 (AF177392) blast and wounding induced mitogen-activated protein kinase [Oryza sativa]'

Seq. No. 45157 Seq. ID OJ000251\_40.0303.C45  
 Gene No. 95416 Strand -  
 Start 1081 End 2823  
 Name OJ000251\_40.0303.C45.o2.gp Method AAT/GAP  
 Start 867 End 934

GI LIB3477-003-P1-K1-E9 Score 83  
 Exons 867..934  
 GI Descrip. '2498586/sp|Q40638|MPO1\_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY  
 S.1 PRECURSOR (ORY S I) >gi\_1173557 (U31771) Ory s 1 [Oryza  
 sativa]'

Seq. No. 45157 Seq. ID OJ000251\_40.0303.C45  
 Gene No. 95416 Strand -  
 Start 1081 End 2823  
 Name OJ000251\_40.0303.C45.o2.gs Method GENSCAN  
 Start 1081 End 2823  
 GI none Score .55  
 Exons 1081..1155, 1277..1343, 1474..1615, 2328..2503, 2606..2823

Seq. No. 45157 Seq. ID OJ000251\_40.0303.C45  
 Gene No. 95417 Strand -  
 Start 11749 End 12566  
 Name OJ000251\_40.0303.C45.o4.np Method AAT/NAP  
 Start 11749 End 12566  
 GI 6069646 Score 412  
 Exons 11749..12566  
 GI Descrip. (AP000616) similar to putative reverse transcriptase (AC005315)  
 [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to  
 Arabidopsis thaliana chromosome II BAC F9013 genomic sequence,  
 putative non-LTR retroelement reverse transcriptase. (AC006248)  
 [Oryza sativa]

Seq. No. 45157 Seq. ID OJ000251\_40.0303.C45  
 Gene No. 95418 Strand -  
 Start 32934 End 33733  
 Name OJ000251\_40.0303.C45.o3.tm Method TBLASTX:Maize  
 Start 6027 End 28198  
 GI none Score 89  
 Exons 6027..6119, 6162..6320, 6173..6316, 19822..19878, 19874..19975,  
 20014..20157, 20015..20161, 27856..27912, 27908..28009,  
 27910..28008, 28040..28198, 28060..28197

Seq. No. 45157 Seq. ID OJ000251\_40.0303.C45  
 Gene No. 95418 Strand -  
 Start 32934 End 33733  
 Name OJ000251\_40.0303.C45.o2.tm Method TBLASTX:Maize  
 Start 6438 End 28783  
 GI none Score 214  
 Exons 6438..6764, 6461..6688, 6864..6908, 20279..20572, 20299..20574,  
 20618..20668, 28322..28642, 28333..28620, 28649..28705,  
 28739..28783

Seq. No. 45157 Seq. ID OJ000251\_40.0303.C45  
 Gene No. 95418 Strand -  
 Start 32934 End 33733  
 Name OJ000251\_40.0303.C45.o1.ts Method TBLASTX:Soybean  
 Start 6474 End 28813  
 GI none Score 234  
 Exons 6474..6782, 6864..6938, 20315..20686, 28349..28705,  
 28351..28566, 28739..28813

Seq. No. 45157 Seq. ID OJ000251\_40.0303.C45



Gene No.	95418	Strand	-
Start	32934	End	33733
Name	OJ000251_40.0303.C45.o1.tm	Method	TBLASTX:Maize
Start	10205	End	33509
GI	none	Score	197
Exons	10205..10258, 10274..10480, 10278..10481, 10506..10622, 11857..11943, 11989..12219, 12110..12220, 12229..12393, 33053..33079, 33147..33509, 33313..33474, 33324..33509		

Seq. No.	45157	Seq. ID	OJ000251_40.0303.C45
Gene No.	95418	Strand	-
Start	32934	End	33733
Name	OJ000251_40.0303.C45.o1.tw	Method	TBLASTX:Wheat
Start	10320	End	33347
GI	none	Score	143
Exons	10320..10457, 10512..10724, 11851..11925, 12031..12168, 33038..33079, 33192..33347		

Seq. No.	45157	Seq. ID	OJ000251_40.0303.C45
Gene No.	95418	Strand	-
Start	32934	End	33733
Name	OJ000251_40.0303.C45.o8.np	Method	AAT/NAP
Start	32934	End	33733
GI	6069646	Score	445
Exons	32934..33733		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	45158	Seq. ID	OJ000251_40.0303.C46
Gene No.	95419	Strand	+
Start	444	End	1199
Name	OJ000251_40.0303.C46.o1.gs	Method	GENSCAN
Start	444	End	1199
GI	none	Score	.53
Exons	444..680, 989..1093, 1161..1199		

Seq. No.	45158	Seq. ID	OJ000251_40.0303.C46
Gene No.	95420	Strand	+
Start	1632	End	3448
Name	OJ000251_40.0303.C46.o1.np	Method	AAT/NAP
Start	1632	End	3448
GI	6907086	Score	1160
Exons	1632..2408, 2468..2702, 2928..2994, 3118..3252, 3354..3448		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	45159	Seq. ID	OJ000251_40.0303.C47
Gene No.	95421	Strand	+
Start	1765	End	4869
Name	OJ000251_40.0303.C47.o1.np	Method	AAT/NAP
Start	1765	End	4869
GI	7489454	Score	709
Exons	1765..2588, 2652..4021, 4835..4869		
GI Descrip.	bacterial blight-resistance protein Xa1 - rice gi 2943742 dbj BAA25068.1  (AB002266) XA1 [Oryza sativa]		

Seq. No.	45159	Seq. ID	OJ000251_40.0303.C47
Gene No.	95421	Strand	+
Start	1765	End	4869
Name	OJ000251_40.0303.C47.o1.gs	Method	GENSCAN
Start	1777	End	4031
GI	none	Score	.5
Exons	1777..2260, 2368..2775, 3103..3375, 3472..4031		

Seq. No.	45159	Seq. ID	OJ000251_40.0303.C47
Gene No.	95421	Strand	+
Start	1765	End	4869
Name	OJ000251_40.0303.C47.o2.np	Method	AAT/NAP
Start	2598	End	3776
GI	7489397	Score	686
Exons	2598..3776		
GI Descrip.	NBS-LRR type resistance protein -- barley (fragment) gi 2792210 gb AAB96980.1  (AF032683) NBS-LRR type resistance protein [Hordeum vulgare]		

Seq. No.	45159	Seq. ID	OJ000251_40.0303.C47
Gene No.	95421	Strand	+
Start	1765	End	4869
Name	OJ000251_40.0303.C47.o1.tm	Method	TBLASTX:Maize
Start	2757	End	3098
GI	none	Score	67
Exons	2757..2873, 2759..2815, 2766..2912, 2951..3094, 2952..3098		

Seq. No.	45159	Seq. ID	OJ000251_40.0303.C47
Gene No.	95421	Strand	+
Start	1765	End	4869
Name	OJ000251_40.0303.C47.o2.tm	Method	TBLASTX:Maize
Start	3222	End	3671
GI	none	Score	203
Exons	3222..3509, 3227..3511, 3552..3605, 3639..3671		

Seq. No.	45159	Seq. ID	OJ000251_40.0303.C47
Gene No.	95421	Strand	+
Start	1765	End	4869
Name	OJ000251_40.0303.C47.o1.ts	Method	TBLASTX:Soybean
Start	3249	End	3680
GI	none	Score	282
Exons	3249..3611, 3639..3680		

Seq. No.	45160	Seq. ID	OJ000251_40.0303.C48
Gene No.	95422	Strand	+
Start	1	End	1246
Name	OJ000251_40.0303.C48.o1.np	Method	AAT/NAP
Start	1	End	1246
GI	4586028	Score	748
Exons	1..28, 261..1246		
GI Descrip.	(AC007109) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	45160	Seq. ID	OJ000251_40.0303.C48
Gene No.	95422	Strand	+
Start	1	End	1246

Name	OJ000251_40.0303.C48.ol.gs	Method	GENSCAN
Start	107	End	1241
GI	none	Score	.74
Exons	107..553, 738..1241		

Seq. No.	45160	Seq. ID	OJ000251_40.0303.C48
Gene No.	95422	Strand	+
Start	1	End	1246
Name	OJ000251_40.0303.C48.ol.ts	Method	TBLASTX:Soybean
Start	416	End	911
GI	5509260	Score	108
Exons	416..568, 548..694, 582..911, 740..892		
GI Descrip.	-		

Seq. No.	45160	Seq. ID	OJ000251_40.0303.C48
Gene No.	95422	Strand	+
Start	1	End	1246
Name	OJ000251_40.0303.C48.ol.tc	Method	TBLASTX:Cress
Start	530	End	800
GI	none	Score	55
Exons	530..568, 581..781, 582..800		

Seq. No.	45160	Seq. ID	OJ000251_40.0303.C48
Gene No.	95422	Strand	+
Start	1	End	1246
Name	OJ000251_40.0303.C48.ol.tw	Method	TBLASTX:Wheat
Start	578	End	1127
GI	none	Score	296
Exons	578..694, 582..926, 740..880, 915..1127, 996..1127		

Seq. No.	45160	Seq. ID	OJ000251_40.0303.C48
Gene No.	95422	Strand	+
Start	1	End	1246
Name	OJ000251_40.0303.C48.ol.tm	Method	TBLASTX:Maize
Start	581	End	1013
GI	none	Score	357
Exons	581..676, 582..1013, 740..901		

Seq. No.	45161	Seq. ID	OJ000251_40.0303.C49
Gene No.	95423	Strand	+
Start	537	End	9714
Name	OJ000251_40.0303.C49.ol.gs	Method	GENSCAN
Start	537	End	9550
GI	none	Score	.74
Exons	537..714, 1219..1456, 2798..3330, 6436..6707, 6810..6940, 7145..7244, 7474..7691, 8192..8478, 8560..8730, 8821..9550		

Seq. No.	45161	Seq. ID	OJ000251_40.0303.C49
Gene No.	95423	Strand	+
Start	537	End	9714
Name	OJ000251_40.0303.C49.ol.gp	Method	AAT/GAP
Start	6820	End	8245
GI	uC-osrocyp012b11b1	Score	918
Exons	6820..6940, 7145..7244, 7474..7691, 8192..8245		
GI Descrip.	'4102839 8.0e-32 (AF016713) LeOPT1 [Lycopersicon esculentum]'		

Seq. No.	45161	Seq. ID	OJ000251_40.0303.C49
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Gene No.	95423	Strand	+
Start	537	End	9714
Name	OJ000251_40.0303.C49.o1.np	Method	AAT/NAP
Start	7102	End	9624
GI	4102839	Score	1320
Exons	7102..7244, 7474..7691, 8192..8730, 8821..9624		
GI Descrip.	(AF016713) LeOPT1 [Lycopersicon esculentum]		

Seq. No.	45161	Seq. ID	OJ000251_40.0303.C49
Gene No.	95423	Strand	+
Start	537	End	9714
Name	OJ000251_40.0303.C49.o2.gp	Method	AAT/GAP
Start	8473	End	9023
GI	LIB3432-028-P1-K1-G9	Score	877
Exons	8473..8730, 8821..9023		
GI Descrip.	'4322327/gb AAD16016  1.0e-33 (AF080545) peptide transporter [Nepenthes alata]'		

Seq. No.	45161	Seq. ID	OJ000251_40.0303.C49
Gene No.	95423	Strand	+
Start	537	End	9714
Name	OJ000251_40.0303.C49.o3.gp	Method	AAT/GAP
Start	9049	End	9714
GI	12563_2.R1084	Score	1245
Exons	9049..9714		
GI Descrip.	'4521193/dbj AB013450.1 AB013450 3.0e-40 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	45161	Seq. ID	OJ000251_40.0303.C49
Gene No.	95424	Strand	+
Start	10068	End	10356
Name	OJ000251_40.0303.C49.o2.gs	Method	GENSCAN
Start	10068	End	10356
GI	none	Score	.69
Exons	10068..10148, 10156..10356		

Seq. No.	45161	Seq. ID	OJ000251_40.0303.C49
Gene No.	95425	Strand	+
Start	10662	End	10767
Name	OJ000251_40.0303.C49.o4.gp	Method	AAT/GAP
Start	10662	End	10767
GI	5816518	Score	155
Exons	10662..10767		
GI Descrip.	4521193/dbj AB013450.1 AB013450 3.0e-40 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	45161	Seq. ID	OJ000251_40.0303.C49
Gene No.	95426	Strand	-
Start	12951	End	21670
Name	OJ000251_40.0303.C49.o2.tc	Method	TBLASTX:Cress
Start	7136	End	9629
GI	none	Score	107
Exons	7136..7252, 7141..7248, 7470..7664, 7472..7663, 8248..8502, 8249..8725, 8557..8601, 8852..9175, 8884..8949, 9001..9195, 9274..9309, 9278..9532, 9361..9558, 9523..9621, 9537..9629		

Seq. No.	45161	Seq. ID	OJ000251_40.0303.C49
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Gene No.	95426	Strand	-
Start	12951	End	21670
Name	OJ000251_40.0303.C49.o3.tw	Method	TBLASTX:Wheat
Start	7142	End	7616
GI	none	Score	144
Exons	7142..7252, 7147..7248, 7158..7262, 7470..7616, 7472..7612		

Seq. No.	45161	Seq. ID	OJ000251_40.0303.C49
Gene No.	95426	Strand	-
Start	12951	End	21670
Name	OJ000251_40.0303.C49.o3.tm	Method	TBLASTX:Maize
Start	7156	End	7696
GI	none	Score	95
Exons	7156..7248, 7157..7255, 7439..7696, 7470..7670		

Seq. No.	45161	Seq. ID	OJ000251_40.0303.C49
Gene No.	95426	Strand	-
Start	12951	End	21670
Name	OJ000251_40.0303.C49.o1.ts	Method	TBLASTX:Soybean
Start	7470	End	9466
GI	none	Score	132
Exons	7470..7682, 7517..7681, 8258..8719, 8287..8502, 8837..9031, 8915..9046, 9034..9195, 9044..9172, 9278..9466		

Seq. No.	45161	Seq. ID	OJ000251_40.0303.C49
Gene No.	95426	Strand	-
Start	12951	End	21670
Name	OJ000251_40.0303.C49.o1.tm	Method	TBLASTX:Maize
Start	8269	End	9627
GI	none	Score	151
Exons	8269..8391, 8279..8416, 8383..8448, 8453..8731, 8455..8502, 8846..9175, 8884..8949, 9001..9195, 9274..9531, 9278..9532, 9523..9627, 9537..9626		

Seq. No.	45161	Seq. ID	OJ000251_40.0303.C49
Gene No.	95426	Strand	-
Start	12951	End	21670
Name	OJ000251_40.0303.C49.o2.tw	Method	TBLASTX:Wheat
Start	9287	End	9594
GI	none	Score	257
Exons	9287..9532, 9290..9367, 9295..9594		

Seq. No.	45161	Seq. ID	OJ000251_40.0303.C49
Gene No.	95426	Strand	-
Start	12951	End	21670
Name	OJ000251_40.0303.C49.o2.np	Method	AAT/NAP
Start	12951	End	21155
GI	7106512	Score	1646
Exons	12951..13338, 13406..13578, 13626..14608, 14712..14757, 15282..15470, 18916..19057, 21122..21155		

GI Descrip. (AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	45161	Seq. ID	OJ000251_40.0303.C49
Gene No.	95426	Strand	-
Start	12951	End	21670
Name	OJ000251_40.0303.C49.o3.np	Method	AAT/NAP

Start	18781	End	21670
GI	3355308	Score	705
Exons	18781..19284, 19588..20302, 21627..21670		
GI Descrip.	(AJ009695) wall-associated kinase 4 [Arabidopsis thaliana]		

Seq. No.	45161	Seq. ID	OJ000251_40.0303.C49
Gene No.	95426	Strand	-
Start	12951	End	21670
Name	OJ000251_40.0303.C49.o2.tm	Method	TBLASTX:Maize
Start	18928	End	20169
GI	none	Score	170
Exons	18928..19296, 19148..19297, 19588..19791, 19589..19777, 19813..20013, 19829..20053, 20000..20116, 20020..20169		

Seq. No.	45161	Seq. ID	OJ000251_40.0303.C49
Gene No.	95426	Strand	-
Start	12951	End	21670
Name	OJ000251_40.0303.C49.o1.tc	Method	TBLASTX:Cress
Start	18949	End	20131
GI	none	Score	54
Exons	18949..19296, 18962..19117, 19154..19309, 19588..19797, 19589..19780, 19810..20010, 19829..20011, 20012..20131, 20029..20121		

Seq. No.	45161	Seq. ID	OJ000251_40.0303.C49
Gene No.	95426	Strand	-
Start	12951	End	21670
Name	OJ000251_40.0303.C49.o2.ts	Method	TBLASTX:Soybean
Start	19120	End	20199
GI	none	Score	104
Exons	19120..19296, 19172..19297, 19588..19779, 19810..19956, 19829..19963, 20029..20121, 20030..20095, 20131..20199		

Seq. No.	45161	Seq. ID	OJ000251_40.0303.C49
Gene No.	95426	Strand	-
Start	12951	End	21670
Name	OJ000251_40.0303.C49.o1.tw	Method	TBLASTX:Wheat
Start	19738	End	20106
GI	none	Score	130
Exons	19738..19803, 19813..20013, 19823..20014, 20029..20106		

Seq. No.	45162	Seq. ID	OJ000251_40.0303.C50
Gene No.	95427	Strand	+
Start	3859	End	5452
Name	OJ000251_40.0303.C50.o3.np	Method	AAT/NAP
Start	3859	End	5452
GI	6630696	Score	2731
Exons	3859..5452		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	45162	Seq. ID	OJ000251_40.0303.C50
Gene No.	95427	Strand	+
Start	3859	End	5452
Name	OJ000251_40.0303.C50.o1.gp	Method	AAT/GAP
Start	3901	End	4789

GI 101595\_1.R1084 Score 1439  
 Exons 3901..4599, 4715..4789  
 GI Descrip. '3047066 3.0e-15 (AF058825) contains similarity to  
 retrovirus-related POL polyproteins [Arabidopsis thaliana]'

Seq. No. 45162 Seq. ID OJ000251\_40.0303.C50  
 Gene No. 95428 Strand -  
 Start 1348 End 3276  
 Name OJ000251\_40.0303.C50.o1.np Method AAT/NAP  
 Start 1348 End 3276  
 GI 5803260 Score 268  
 Exons 1348..2001, 2321..2509, 3215..3276  
 GI Descrip. (AP000399) similar to wak1 gene (AJ009696) [Oryza sativa]

Seq. No. 45162 Seq. ID OJ000251\_40.0303.C50  
 Gene No. 95429 Strand -  
 Start 5133 End 5452  
 Name OJ000251\_40.0303.C50.o1.tw Method TBLASTX:Wheat  
 Start 3753 End 4150  
 GI none Score 128  
 Exons 3753..3851, 3754..3888, 3865..4149, 3939..4130, 3968..4150

Seq. No. 45162 Seq. ID OJ000251\_40.0303.C50  
 Gene No. 95429 Strand -  
 Start 5133 End 5452  
 Name OJ000251\_40.0303.C50.o2.tm Method TBLASTX:Maize  
 Start 3901 End 4209  
 GI none Score 318  
 Exons 3901..4209, 3948..4130, 4001..4144, 4030..4206

Seq. No. 45162 Seq. ID OJ000251\_40.0303.C50  
 Gene No. 95429 Strand -  
 Start 5133 End 5452  
 Name OJ000251\_40.0303.C50.o1.tm Method TBLASTX:Maize  
 Start 4730 End 5004  
 GI none Score 391  
 Exons 4730..5002, 4731..5003, 4731..5003, 4732..5004, 4732..5004

Seq. No. 45162 Seq. ID OJ000251\_40.0303.C50  
 Gene No. 95429 Strand -  
 Start 5133 End 5452  
 Name OJ000251\_40.0303.C50.o1.ts Method TBLASTX:Soybean  
 Start 5048 End 5428  
 GI none Score 80  
 Exons 5048..5197, 5180..5428

Seq. No. 45162 Seq. ID OJ000251\_40.0303.C50  
 Gene No. 95429 Strand -  
 Start 5133 End 5452  
 Name OJ000251\_40.0303.C50.o3.gs Method GENSCAN  
 Start 5133 End 5264  
 GI none Score .97  
 Exons 5133..5264

Seq. No. 45162 Seq. ID OJ000251\_40.0303.C50  
 Gene No. 95429 Strand -  
 Start 5133 End 5452

Name	OJ000251_40.0303.C50.o2.tw	Method	TBLASTX:Wheat
Start	5293	End	5452
GI	none	Score	242
Exons	5293..5451, 5294..5452		
Seq. No.	45163	Seq. ID	OJ000251_40.0303.C51
Gene No.	95430	Strand	+
Start	1	End	806
Name	OJ000251_40.0303.C51.o1.np	Method	AAT/NAP
Start	1	End	806
GI	6630696	Score	1383
Exons	1..806		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		
Seq. No.	45163	Seq. ID	OJ000251_40.0303.C51
Gene No.	95430	Strand	+
Start	1	End	806
Name	OJ000251_40.0303.C51.o1.gs	Method	GENSCAN
Start	17	End	731
GI	none	Score	.53
Exons	17..731		
Seq. No.	45163	Seq. ID	OJ000251_40.0303.C51
Gene No.	95430	Strand	+
Start	1	End	806
Name	OJ000251_40.0303.C51.o2.tw	Method	TBLASTX:Wheat
Start	38	End	292
GI	none	Score	316
Exons	38..292, 39..287, 103..288, 110..292		
Seq. No.	45163	Seq. ID	OJ000251_40.0303.C51
Gene No.	95430	Strand	+
Start	1	End	806
Name	OJ000251_40.0303.C51.o1.ts	Method	TBLASTX:Soybean
Start	212	End	676
GI	5509260	Score	380
Exons	212..676, 307..468, 499..531		
GI Descrip.	-		
Seq. No.	45163	Seq. ID	OJ000251_40.0303.C51
Gene No.	95430	Strand	+
Start	1	End	806
Name	OJ000251_40.0303.C51.o1.tc	Method	TBLASTX:Cress
Start	305	End	565
GI	none	Score	291
Exons	305..565, 307..477		
Seq. No.	45163	Seq. ID	OJ000251_40.0303.C51
Gene No.	95430	Strand	+
Start	1	End	806
Name	OJ000251_40.0303.C51.o1.tm	Method	TBLASTX:Maize
Start	346	End	793
GI	none	Score	349
Exons	346..477, 347..793, 482..562, 598..708		



Seq. No.	45163	Seq. ID	OJ000251_40.0303.C51
Gene No.	95430	Strand	+
Start	1	End	806
Name	OJ000251_40.0303.C51.o1.tw	Method	TBLASTX:Wheat
Start	347	End	805
GI	none	Score	308
Exons	347..691, 364..531, 686..805		

Seq. No.	45164	Seq. ID	OJ000251_40.0303.C52
Gene No.	95431	Strand	+
Start	1	End	1189
Name	OJ000251_40.0303.C52.o1.np	Method	AAT/NAP
Start	1	End	720
GI	6630696	Score	1166
Exons	1..720		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	45164	Seq. ID	OJ000251_40.0303.C52
Gene No.	95431	Strand	+
Start	1	End	1189
Name	OJ000251_40.0303.C52.o1.tm	Method	TBLASTX:Maize
Start	1	End	254
GI	none	Score	275
Exons	1..252, 2..253, 6..254		

Seq. No.	45164	Seq. ID	OJ000251_40.0303.C52
Gene No.	95431	Strand	+
Start	1	End	1189
Name	OJ000251_40.0303.C52.o1.ts	Method	TBLASTX:Soybean
Start	98	End	472
GI	none	Score	118
Exons	98..229, 104..229, 247..348, 248..472		

Seq. No.	45164	Seq. ID	OJ000251_40.0303.C52
Gene No.	95431	Strand	+
Start	1	End	1189
Name	OJ000251_40.0303.C52.o1.tw	Method	TBLASTX:Wheat
Start	110	End	585
GI	none	Score	105
Exons	110..184, 111..170, 115..183, 199..585, 200..583, 205..585		

Seq. No.	45164	Seq. ID	OJ000251_40.0303.C52
Gene No.	95431	Strand	+
Start	1	End	1189
Name	OJ000251_40.0303.C52.o1.gs	Method	GENSCAN
Start	383	End	970
GI	none	Score	.81
Exons	383..673, 869..970		

Seq. No.	45164	Seq. ID	OJ000251_40.0303.C52
Gene No.	95431	Strand	+
Start	1	End	1189
Name	OJ000251_40.0303.C52.o2.tm	Method	TBLASTX:Maize
Start	595	End	917
GI	none	Score	108

Exons 595..705, 596..706, 723..827, 730..834, 733..819, 873..917, 892..915

Seq. No.	45164	Seq. ID	OJ000251_40.0303.C52
Gene No.	95431	Strand	+
Start	1	End	1189
Name	OJ000251_40.0303.C52.o2.tw	Method	TBLASTX:Wheat
Start	861	End	1189
GI	none	Score	36
Exons	861..905, 931..999, 933..1001, 1013..1177, 1013..1189, 1021..1179		

Seq. No.	45165	Seq. ID	OJ000251_40.0303.C53
Gene No.	95432	Strand	-
Start	2736	End	2876
Name	OJ000251_40.0303.C53.o1.gs	Method	GENSCAN
Start	2736	End	2876
GI	none	Score	.76
Exons	2736..2876		

Seq. No.	45166	Seq. ID	OJ000251_40.0303.C54
Gene No.	95433	Strand	+
Start	253	End	2516
Name	OJ000251_40.0303.C54.o1.gs	Method	GENSCAN
Start	253	End	2516
GI	none	Score	.68
Exons	253..368, 2137..2516		

Seq. No.	45166	Seq. ID	OJ000251_40.0303.C54
Gene No.	95433	Strand	+
Start	253	End	2516
Name	OJ000251_40.0303.C54.o1.gp	Method	AAT/GAP
Start	2152	End	2434
GI	uC-osflcyp098c10b1	Score	425
Exons	2152..2434		
GI Descrip.	'1888550/gb U89895 OSU89895 4.0e-36 Oryza sativa pathogenesis-related protein class 1 (PR-1) gene, complete cds'		

Seq. No.	45166	Seq. ID	OJ000251_40.0303.C54
Gene No.	95434	Strand	+
Start	2477	End	2562
Name	OJ000251_40.0303.C54.o1.tm	Method	TBLASTX:Maize
Start	1344	End	2549
GI	none	Score	52
Exons	1344..1487, 1472..1543, 2328..2480, 2342..2467, 2505..2549, 2520..2549		

Seq. No.	45166	Seq. ID	OJ000251_40.0303.C54
Gene No.	95434	Strand	+
Start	2477	End	2562
Name	OJ000251_40.0303.C54.o1.tc	Method	TBLASTX:Cress
Start	2337	End	2477
GI	none	Score	208
Exons	2337..2477, 2342..2467		

Seq. No.	45166	Seq. ID	OJ000251_40.0303.C54
Gene No.	95434	Strand	+

Start	2477	End	2562
Name	OJ000251_40.0303.C54.o1.ts	Method	TBLASTX:Soybean
Start	2337	End	2555
GI	none	Score	207
Exons	2337..2477, 2342..2440, 2505..2555		
Seq. No.	45166	Seq. ID	OJ000251_40.0303.C54
Gene No.	95434	Strand	+
Start	2477	End	2562
Name	OJ000251_40.0303.C54.o2.gp	Method	AAT/GAP
Start	2477	End	2562
GI	20096_1.R1084	Score	125
Exons	2477..2562		
GI Descrip.	'2853097/emb CAA16913  2.0e-12 (AL021767) hypothetical protein [Schizosaccharomyces pombe]'		
Seq. No.	45167	Seq. ID	OJ000251_40.0303.C55
Gene No.	95435	Strand	+
Start	42	End	1849
Name	OJ000251_40.0303.C55.o1.gs	Method	GENSCAN
Start	42	End	709
GI	none	Score	.86
Exons	42..237, 428..495, 587..709		
Seq. No.	45167	Seq. ID	OJ000251_40.0303.C55
Gene No.	95435	Strand	+
Start	42	End	1849
Name	OJ000251_40.0303.C55.o1.gp	Method	AAT/GAP
Start	428	End	1354
GI	20096_1.R1084	Score	364
Exons	428..495, 587..673, 1249..1354		
GI Descrip.	'2853097/emb CAA16913  2.0e-12 (AL021767) hypothetical protein [Schizosaccharomyces pombe]'		
Seq. No.	45167	Seq. ID	OJ000251_40.0303.C55
Gene No.	95435	Strand	+
Start	42	End	1849
Name	OJ000251_40.0303.C55.o2.gp	Method	AAT/GAP
Start	1240	End	1849
GI	20096_1.R1084	Score	935
Exons	1240..1849		
GI Descrip.	'2853097/emb CAA16913  2.0e-12 (AL021767) hypothetical protein [Schizosaccharomyces pombe]'		
Seq. No.	45167	Seq. ID	OJ000251_40.0303.C55
Gene No.	95435	Strand	+
Start	42	End	1849
Name	OJ000251_40.0303.C55.o3.gp	Method	AAT/GAP
Start	1249	End	1849
GI	20096_1.R1084	Score	935
Exons	1249..1849		
GI Descrip.	'2853097/emb CAA16913  2.0e-12 (AL021767) hypothetical protein [Schizosaccharomyces pombe]'		
Seq. No.	45167	Seq. ID	OJ000251_40.0303.C55
Gene No.	95436	Strand	-
Start	1576	End	1794

Name	OJ000251_40.0303.C55.o1.tc	Method	TBLASTX:Cress
Start	153	End	1303
GI	none	Score	95
Exons	153..239, 423..494, 427..495, 585..665, 586..672, 587..673, 1247..1303		

Seq. No.	45167	Seq. ID	OJ000251_40.0303.C55
Gene No.	95436	Strand	-
Start	1576	End	1794
Name	OJ000251_40.0303.C55.o1.tm	Method	TBLASTX:Maize
Start	153	End	1376
GI	none	Score	106
Exons	153..239, 155..238, 175..294, 423..494, 427..495, 429..497, 585..671, 586..672, 587..673, 1247..1303, 1248..1304, 1249..1305, 1317..1376, 1319..1363		

Seq. No.	45167	Seq. ID	OJ000251_40.0303.C55
Gene No.	95436	Strand	-
Start	1576	End	1794
Name	OJ000251_40.0303.C55.o1.ts	Method	TBLASTX:Soybean
Start	153	End	1307
GI	none	Score	104
Exons	153..239, 155..238, 426..494, 427..495, 428..499, 584..670, 586..672, 587..673, 1248..1307, 1249..1302		

Seq. No.	45167	Seq. ID	OJ000251_40.0303.C55
Gene No.	95436	Strand	-
Start	1576	End	1794
Name	OJ000251_40.0303.C55.o2.gs	Method	GENSCAN
Start	1576	End	1794
GI	none	Score	.55
Exons	1576..1794		

Seq. No.	45168	Seq. ID	OJ000251_40.0303.C58
Gene No.	95437	Strand	+
Start	91	End	147
Name	OJ000251_40.0303.C58.o1.gp	Method	AAT/GAP
Start	91	End	147
GI	16490_1.R1084	Score	89
Exons	91..147		
GI Descrip.	'4584525/emb CAB40756.1  7.0e-38 (AL049607) protein phosphatase 2C-like protein [Arabidopsis thaliana]'		

Seq. No.	45168	Seq. ID	OJ000251_40.0303.C58
Gene No.	95438	Strand	+
Start	532	End	743
Name	OJ000251_40.0303.C58.o1.gs	Method	GENSCAN
Start	532	End	743
GI	none	Score	.9
Exons	532..743		

Seq. No.	45169	Seq. ID	OJ000251_40.0303.C61
Gene No.	95439	Strand	+
Start	880	End	1711
Name	OJ000251_40.0303.C61.o1.gs	Method	GENSCAN
Start	880	End	1616
GI	none	Score	.59

Exons 880..1123, 1478..1519, 1573..1616

Seq. No.	45169	Seq. ID	OJ000251_40.0303.C61
Gene No.	95439	Strand	+
Start	880	End	1711
Name	OJ000251_40.0303.C61.o1.np	Method	AAT/NAP
Start	1387	End	1711
GI	140291	Score	378
Exons	1387..1711		
GI Descrip.	HYPOTHETICAL 21.5 KD PROTEIN (ORF 185) gi 82541 pir  S05116 hypothetical protein 185 - rice chloroplast gi 11997 emb CAA33958  (X15901) ORF185 [Oryza sativa] gi 226618 prf  1603356AQ ORF 185 [Oryza sativa]		

Seq. No.	45169	Seq. ID	OJ000251_40.0303.C61
Gene No.	95440	Strand	-
Start	1	End	90
Name	OJ000251_40.0303.C61.o1.gp	Method	AAT/GAP
Start	1	End	90
GI	none	Score	143
Exons	1..90		

Seq. No.	45169	Seq. ID	OJ000251_40.0303.C61
Gene No.	95441	Strand	
Start	1443	End	1698
Name	OJ000251_40.0303.C61.o1.tc	Method	TBLASTX:Cress
Start	1443	End	1698
GI	none	Score	230
Exons	1443..1682, 1446..1685, 1447..1689, 1456..1698		

Seq. No.	45169	Seq. ID	OJ000251_40.0303.C61
Gene No.	95441	Strand	
Start	1443	End	1698
Name	OJ000251_40.0303.C61.o1.tm	Method	TBLASTX:Maize
Start	1542	End	1689
GI	none	Score	41
Exons	1542..1574, 1542..1574, 1543..1575, 1553..1687, 1560..1688, 1560..1685, 1561..1689		

Seq. No.	45170	Seq. ID	OJ000251_40.0303.C62
Gene No.	95442	Strand	-
Start	1	End	112
Name	OJ000251_40.0303.C62.o1.gp	Method	AAT/GAP
Start	1	End	112
GI	87968_1.R1084	Score	184
Exons	1..112		
GI Descrip.	'4176420/dbj BAA37167  2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	45170	Seq. ID	OJ000251_40.0303.C62
Gene No.	95443	Strand	-
Start	50	End	682
Name	OJ000251_40.0303.C62.o1.np	Method	AAT/NAP
Start	50	End	682
GI	7486210	Score	190
Exons	50..369, 595..682		
GI Descrip.	hypothetical protein F26P21.160 - Arabidopsis thaliana		

gi|3688185|emb|CAA21213.1| (AL031804) putative protein  
 [Arabidopsis thaliana] gi|7270251|emb|CAB80021.1| (AL161582)  
 putative protein [Arabidopsis thaliana]

Seq. No.	45170	Seq. ID	OJ000251_40.0303.C62
Gene No.	95443	Strand	-
Start	50	End	682
Name	OJ000251_40.0303.C62.o1.gs	Method	GENSCAN
Start	68	End	424
GI	none	Score	.42
Exons	68..424		

Seq. No.	45170	Seq. ID	OJ000251_40.0303.C62
Gene No.	95443	Strand	-
Start	50	End	682
Name	OJ000251_40.0303.C62.o1.tm	Method	TBLASTX:Maize
Start	221	End	364
GI	none	Score	120
Exons	221..364, 222..335		

Seq. No.	45171	Seq. ID	OJ000251_40.0303.C71
Gene No.	95444	Strand	+
Start	1	End	248
Name	OJ000251_40.0303.C71.o1.np	Method	AAT/NAP
Start	1	End	232
GI	7487529	Score	158
Exons	1..232		
GI Descrip.	hypothetical protein T29H11.110 - Arabidopsis thaliana gi 4678351 emb CAB41161.1  (AL049659) putative protein [Arabidopsis thaliana]		

Seq. No.	45171	Seq. ID	OJ000251_40.0303.C71
Gene No.	95444	Strand	+
Start	1	End	248
Name	OJ000251_40.0303.C71.o1.tm	Method	TBLASTX:Maize
Start	1	End	248
GI	none	Score	276
Exons	1..234, 9..248, 132..242		

Seq. No.	45172	Seq. ID	OJ000251_40.0303.C72
Gene No.	95445	Strand	+
Start	1	End	629
Name	OJ000251_40.0303.C72.o1.np	Method	AAT/NAP
Start	1	End	629
GI	7489454	Score	203
Exons	1..126, 179..629		
GI Descrip.	bacterial blight-resistance protein Xa1 - rice gi 2943742 dbj BAA25068.1  (AB002266) XA1 [Oryza sativa]		

Seq. No.	45172	Seq. ID	OJ000251_40.0303.C72
Gene No.	95445	Strand	+
Start	1	End	629
Name	OJ000251_40.0303.C72.o1.gs	Method	GENSCAN
Start	51	End	629
GI	none	Score	.89
Exons	51..629		

Seq. No.	45172	Seq. ID	OJ000251_40.0303.C72
Gene No.	95446	Strand	+
Start	5095	End	6513
Name	OJ000251_40.0303.C72.o1.gp	Method	AAT/GAP
Start	5017	End	5525
GI	none	Score	959
Exons	5017..5525		

Seq. No.	45172	Seq. ID	OJ000251_40.0303.C72
Gene No.	95446	Strand	+
Start	5095	End	6513
Name	OJ000251_40.0303.C72.o2.gs	Method	GENSCAN
Start	5095	End	6513
GI	none	Score	.94
Exons	5095..6513		

Seq. No.	45172	Seq. ID	OJ000251_40.0303.C72
Gene No.	95447	Strand	+
Start	7555	End	13193
Name	OJ000251_40.0303.C72.o3.gs	Method	GENSCAN
Start	7555	End	13193
GI	none	Score	.85
Exons	7555..7925, 10103..10148, 10804..10880, 11271..11354, 11403..11466, 11633..11822, 11944..13193		

Seq. No.	45172	Seq. ID	OJ000251_40.0303.C72
Gene No.	95447	Strand	+
Start	7555	End	13193
Name	OJ000251_40.0303.C72.o2.np	Method	AAT/NAP
Start	12053	End	13185
GI	6056194	Score	466
Exons	12053..13185		
GI Descrip.	(AC009400) unknown protein [Arabidopsis thaliana]		

Seq. No.	45172	Seq. ID	OJ000251_40.0303.C72
Gene No.	95448	Strand	-
Start	6302	End	6856
Name	OJ000251_40.0303.C72.o2.gp	Method	AAT/GAP
Start	6302	End	6856
GI	none	Score	997
Exons	6302..6856		

Seq. No.	45172	Seq. ID	OJ000251_40.0303.C72
Gene No.	95449	Strand	-
Start	11171	End	11833
Name	OJ000251_40.0303.C72.o3.gp	Method	AAT/GAP
Start	11171	End	11833
GI	4714647	Score	1159
Exons	11171..11833		

Seq. No.	45172	Seq. ID	OJ000251_40.0303.C72
Gene No.	95450	Strand	-
Start	14036	End	14759
Name	OJ000251_40.0303.C72.o4.gp	Method	AAT/GAP
Start	14036	End	14759
GI	23698_1.R1084	Score	1382
Exons	14036..14759		

GI Descrip. '3337367 4.0e-29 (AC004481) hypothetical protein [Arabidopsis thaliana]'

Seq. No.	45172	Seq. ID	OJ000251_40.0303.C72
Gene No.	95451	Strand	-
Start	16439	End	19501
Name	OJ000251_40.0303.C72.o1.tm	Method	TBLASTX:Maize
Start	11717	End	13127
GI	none	Score	80
Exons	11717..11806, 12047..12220, 12048..12233, 12263..12430, 12264..12659, 12351..12470, 12458..12583, 12705..13124, 12717..13127		

Seq. No.	45172	Seq. ID	OJ000251_40.0303.C72
Gene No.	95451	Strand	-
Start	16439	End	19501
Name	OJ000251_40.0303.C72.o1.tc	Method	TBLASTX:Cress
Start	12075	End	12626
GI	none	Score	51
Exons	12075..12173, 12267..12626, 12281..12373, 12422..12514		

Seq. No.	45172	Seq. ID	OJ000251_40.0303.C72
Gene No.	95451	Strand	-
Start	16439	End	19501
Name	OJ000251_40.0303.C72.o1.ts	Method	TBLASTX:Soybean
Start	12270	End	12923
GI	none	Score	258
Exons	12270..12626, 12675..12923, 12761..12922		

Seq. No.	45172	Seq. ID	OJ000251_40.0303.C72
Gene No.	95451	Strand	-
Start	16439	End	19501
Name	OJ000251_40.0303.C72.o1.tw	Method	TBLASTX:Wheat
Start	12764	End	12997
GI	none	Score	379
Exons	12764..12997, 12765..12995, 12869..12997		

Seq. No.	45172	Seq. ID	OJ000251_40.0303.C72
Gene No.	95451	Strand	-
Start	16439	End	19501
Name	OJ000251_40.0303.C72.o3.tc	Method	TBLASTX:Cress
Start	12780	End	13178
GI	none	Score	109
Exons	12780..12923, 12782..12928, 12924..13178, 12981..13178		

Seq. No.	45172	Seq. ID	OJ000251_40.0303.C72
Gene No.	95451	Strand	-
Start	16439	End	19501
Name	OJ000251_40.0303.C72.o4.gs	Method	GENSCAN
Start	16439	End	19400
GI	none	Score	.59
Exons	16439..16495, 17524..17610, 17699..17817, 18700..18938, 19336..19400		

Seq. No.	45172	Seq. ID	OJ000251_40.0303.C72
Gene No.	95451	Strand	-
Start	16439	End	19501



Name	OJ000251_40.0303.C72.o3.np	Method	AAT/NAP
Start	17488	End	19501
GI	7485468	Score	363
Exons	17488..17610, 17699..17817, 18700..18938, 19041..19085, 19345..19501		
GI Descrip.	hypothetical protein F13P17.20 - Arabidopsis thaliana gi 3337367 gb AAC27412.1  (AC004481) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	45172	Seq. ID	OJ000251_40.0303.C72
Gene No.	95451	Strand	-
Start	16439	End	19501
Name	OJ000251_40.0303.C72.o4.tc	Method	TBLASTX:Cress
Start	17494	End	17819
GI	none	Score	58
Exons	17494..17613, 17524..17607, 17699..17818, 17702..17815, 17739..17819		
Seq. No.	45172	Seq. ID	OJ000251_40.0303.C72
Gene No.	95451	Strand	-
Start	16439	End	19501
Name	OJ000251_40.0303.C72.o2.ts	Method	TBLASTX:Soybean
Start	17533	End	17819
GI	none	Score	60
Exons	17533..17613, 17534..17611, 17699..17815, 17699..17818, 17703..17819		
Seq. No.	45172	Seq. ID	OJ000251_40.0303.C72
Gene No.	95451	Strand	-
Start	16439	End	19501
Name	OJ000251_40.0303.C72.o2.tm	Method	TBLASTX:Maize
Start	17705	End	18956
GI	none	Score	126
Exons	17705..17818, 18695..18940, 18720..18956		
Seq. No.	45172	Seq. ID	OJ000251_40.0303.C72
Gene No.	95451	Strand	-
Start	16439	End	19501
Name	OJ000251_40.0303.C72.o2.tc	Method	TBLASTX:Cress
Start	18698	End	19421
GI	none	Score	108
Exons	18698..18955, 18699..18971, 19338..19421		
Seq. No.	45173	Seq. ID	OJ000251_40.0303.C73
Gene No.	95452	Strand	+
Start	1	End	10171
Name	OJ000251_40.0303.C73.o4.np	Method	AAT/NAP
Start	1	End	10171
GI	4680183	Score	203
Exons	1..54, 9403..9471, 10080..10171		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		
Seq. No.	45173	Seq. ID	OJ000251_40.0303.C73
Gene No.	95452	Strand	+
Start	1	End	10171
Name	OJ000251_40.0303.C73.o2.np	Method	AAT/NAP
Start	3235	End	5650

GI 6735317 Score 509  
 Exons 3235..3250, 4430..4513, 4559..5650  
 GI Descrip. (AL137080) putative protein [Arabidopsis thaliana]

Seq. No. 45173 Seq. ID OJ000251\_40.0303.C73  
 Gene No. 95452 Strand +  
 Start 1 End 10171  
 Name OJ000251\_40.0303.C73.o1.gp Method AAT/GAP  
 Start 3735 End 4575  
 GI uC-osflcyp158d12b1 Score 656  
 Exons 3735..3882, 4212..4268, 4401..4575  
 GI Descrip. '4680178/gb|AF111709.1|AF111709 5.0e-81 Oryza sativa subsp.  
 indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2  
 retrotransposon, complete sequences; and unknown genes'

Seq. No. 45173 Seq. ID OJ000251\_40.0303.C73  
 Gene No. 95452 Strand +  
 Start 1 End 10171  
 Name OJ000251\_40.0303.C73.o2.gs Method GENSCAN  
 Start 3747 End 6802  
 GI none Score .92  
 Exons 3747..3882, 4212..4268, 4401..5260, 5326..5600, 5938..6153,  
 6352..6802

Seq. No. 45173 Seq. ID OJ000251\_40.0303.C73  
 Gene No. 95452 Strand +  
 Start 1 End 10171  
 Name OJ000251\_40.0303.C73.o3.np Method AAT/NAP  
 Start 4498 End 6796  
 GI 1946363 Score 302  
 Exons 4498..4570, 5161..5265, 6444..6796  
 GI Descrip. (U93215) putative glycine-rich protein [Arabidopsis thaliana]

Seq. No. 45173 Seq. ID OJ000251\_40.0303.C73  
 Gene No. 95453 Strand +  
 Start 10535 End 10607  
 Name OJ000251\_40.0303.C73.o2.gp Method AAT/GAP  
 Start 10535 End 10607  
 GI 1631463 Score 81  
 Exons 10535..10607  
 GI Descrip. 4680178/gb|AF111709.1|AF111709 5.0e-81 Oryza sativa subsp.  
 indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2  
 retrotransposon, complete sequences; and unknown genes

Seq. No. 45173 Seq. ID OJ000251\_40.0303.C73  
 Gene No. 95454 Strand -  
 Start 1 End 1001  
 Name OJ000251\_40.0303.C73.o1.np Method AAT/NAP  
 Start 1 End 1001  
 GI 6692734 Score 476  
 Exons 1..368, 768..1001  
 GI Descrip. (AC012679) putative integral membrane protein [Arabidopsis  
 thaliana]

Seq. No. 45173 Seq. ID OJ000251\_40.0303.C73  
 Gene No. 95455 Strand -  
 Start 8222 End 10049

Name	OJ000251_40.0303.C73.o3.tm	Method	TBLASTX:Maize
Start	3	End	396
GI	none	Score	184
Exons	3..368, 55..396		
Seq. No.	45173	Seq. ID	OJ000251_40.0303.C73
Gene No.	95455	Strand	-
Start	8222	End	10049
Name	OJ000251_40.0303.C73.o2.ts	Method	TBLASTX:Soybean
Start	15	End	950
GI	none	Score	132
Exons	15..368, 133..372, 765..950		
Seq. No.	45173	Seq. ID	OJ000251_40.0303.C73
Gene No.	95455	Strand	-
Start	8222	End	10049
Name	OJ000251_40.0303.C73.o1.tc	Method	TBLASTX:Cress
Start	24	End	947
GI	none	Score	218
Exons	24..368, 55..366, 765..947, 769..939		
Seq. No.	45173	Seq. ID	OJ000251_40.0303.C73
Gene No.	95455	Strand	-
Start	8222	End	10049
Name	OJ000251_40.0303.C73.o4.tm	Method	TBLASTX:Maize
Start	765	End	944
GI	none	Score	130
Exons	765..944, 766..912		
Seq. No.	45173	Seq. ID	OJ000251_40.0303.C73
Gene No.	95455	Strand	-
Start	8222	End	10049
Name	OJ000251_40.0303.C73.o2.tc	Method	TBLASTX:Cress
Start	4448	End	5035
GI	none	Score	58
Exons	4448..4525, 4595..4660, 4691..5035, 4726..5034		
Seq. No.	45173	Seq. ID	OJ000251_40.0303.C73
Gene No.	95455	Strand	-
Start	8222	End	10049
Name	OJ000251_40.0303.C73.o1.tm	Method	TBLASTX:Maize
Start	4682	End	5161
GI	none	Score	415
Exons	4682..5161, 4756..5031, 4970..5053		
Seq. No.	45173	Seq. ID	OJ000251_40.0303.C73
Gene No.	95455	Strand	-
Start	8222	End	10049
Name	OJ000251_40.0303.C73.o1.ts	Method	TBLASTX:Soybean
Start	4691	End	5340
GI	none	Score	302
Exons	4691..5107, 4726..5034, 5266..5340		
Seq. No.	45173	Seq. ID	OJ000251_40.0303.C73
Gene No.	95455	Strand	-
Start	8222	End	10049
Name	OJ000251_40.0303.C73.o2.tm	Method	TBLASTX:Maize

Start 5266  
GI none  
Exons 5266..5601, 5277..5540

End 5601  
Score 301

Seq. No. 45173  
Gene No. 95455  
Start 8222  
Name OJ000251\_40.0303.C73.o3.tc  
Start 5266  
GI none  
Exons 5266..5340, 5368..5586

Seq. ID OJ000251\_40.0303.C73  
Strand -  
End 10049  
Method TBLASTX:Cress  
End 5586  
Score 70

Seq. No. 45173  
Gene No. 95455  
Start 8222  
Name OJ000251\_40.0303.C73.o1.tw  
Start 5301  
GI none  
Exons 5301..5540, 5302..5601

Seq. ID OJ000251\_40.0303.C73  
Strand -  
End 10049  
Method TBLASTX:Wheat  
End 5601  
Score 260

Seq. No. 45173  
Gene No. 95455  
Start 8222  
Name OJ000251\_40.0303.C73.o3.gs  
Start 8222  
GI none  
Exons 8222..8374, 8779..8910, 9183..9301, 9959..10049

Seq. ID OJ000251\_40.0303.C73  
Strand -  
End 10049  
Method GENSCAN  
End 10049  
Score .44

Seq. No. 45174  
Gene No. 95456  
Start 1164  
Name OJ000251\_47.0320.C1.o2.gs  
Start 1164  
GI none  
Exons 1164..2586, 3353..3389, 3490..3638, 5494..7187, 7263..7919

Seq. ID OJ000251\_47.0320.C1  
Strand +  
End 7919  
Method GENSCAN  
End 7919  
Score .55

Seq. No. 45174  
Gene No. 95456  
Start 1164  
Name OJ000251\_47.0320.C1.o2.np  
Start 5498  
GI 7228457  
Exons 5498..7071, 7126..7910

Seq. ID OJ000251\_47.0320.C1  
Strand +  
End 7919  
Method AAT/NAP  
End 7910  
Score 1593

GI Descrip. (AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]

Seq. No. 45174  
Gene No. 95457  
Start 9417  
Name OJ000251\_47.0320.C1.o4.np  
Start 9417  
GI 7523517  
Exons 9417..9747, 11092..11171  
GI Descrip. (AP001633) hypothetical protein [Oryza sativa]

Seq. ID OJ000251\_47.0320.C1  
Strand +  
End 11171  
Method AAT/NAP  
End 11171  
Score 158

Seq. No. 45174

Seq. ID OJ000251\_47.0320.C1

Gene No.	95458	Strand	+
Start	12646	End	12780
Name	OJ000251_47.0320.C1.o2.gp	Method	AAT/GAP
Start	12646	End	12780
GI	LIB3431-047-P1-K1-D10	Score	207
Exons	12646..12780		
GI Descrip.	'4512667/gb AAD21721.1  8.0e-22 (AC006931) putative MAP kinase [Arabidopsis thaliana]'		

Seq. No.	45174	Seq. ID	OJ000251_47.0320.C1
Gene No.	95459	Strand	-
Start	7219	End	11501
Name	OJ000251_47.0320.C1.o3.np	Method	AAT/NAP
Start	7219	End	8967
GI	6721558	Score	226
Exons	7219..7434, 8030..8167, 8868..8967		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi 6815083 dbj BAA90369.1  (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	45174	Seq. ID	OJ000251_47.0320.C1
Gene No.	95459	Strand	-
Start	7219	End	11501
Name	OJ000251_47.0320.C1.o5.np	Method	AAT/NAP
Start	8179	End	11501
GI	6721512	Score	67
Exons	8179..8210, 9778..9886, 11480..11501		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	45174	Seq. ID	OJ000251_47.0320.C1
Gene No.	95460	Strand	-
Start	11877	End	12077
Name	OJ000251_47.0320.C1.o3.tw	Method	TBLASTX:Wheat
Start	5547	End	5939
GI	none	Score	58
Exons	5547..5591, 5592..5705, 5603..5653, 5664..5939, 5711..5938		

Seq. No.	45174	Seq. ID	OJ000251_47.0320.C1
Gene No.	95460	Strand	-
Start	11877	End	12077
Name	OJ000251_47.0320.C1.o2.tm	Method	TBLASTX:Maize
Start	5586	End	5825
GI	none	Score	203
Exons	5586..5825		

Seq. No.	45174	Seq. ID	OJ000251_47.0320.C1
Gene No.	95460	Strand	-
Start	11877	End	12077
Name	OJ000251_47.0320.C1.o2.tw	Method	TBLASTX:Wheat
Start	6570	End	7025
GI	none	Score	148
Exons	6570..6752, 6578..6751, 6789..7025, 6791..6907, 6795..7010, 6950..7015		

Seq. No.	45174	Seq. ID	OJ000251_47.0320.C1
Gene No.	95460	Strand	-
Start	11877	End	12077

Name OJ000251\_47.0320.C1.o1.tw  
 Start 7217  
 GI none  
 Exons 7217..7672, 7218..7673

Method TBLASTX:Wheat  
 End 7673  
 Score 541

Seq. No. 45174  
 Gene No. 95460  
 Start 11877  
 Name OJ000251\_47.0320.C1.o1.ts  
 Start 7257  
 GI none  
 Exons 7257..7481, 7488..7622

Seq. ID OJ000251\_47.0320.C1  
 Strand -  
 End 12077  
 Method TBLASTX:Soybean  
 End 7622  
 Score 105

Seq. No. 45174  
 Gene No. 95460  
 Start 11877  
 Name OJ000251\_47.0320.C1.o1.tm  
 Start 7347  
 GI none  
 Exons 7347..7703, 7401..7649, 7409..7702

Seq. ID OJ000251\_47.0320.C1  
 Strand -  
 End 12077  
 Method TBLASTX:Maize  
 End 7703  
 Score 411

Seq. No. 45174  
 Gene No. 95460  
 Start 11877  
 Name OJ000251\_47.0320.C1.o4.tw  
 Start 7674  
 GI none  
 Exons 7674..7910

Seq. ID OJ000251\_47.0320.C1  
 Strand -  
 End 12077  
 Method TBLASTX:Wheat  
 End 7910  
 Score 247

Seq. No. 45174  
 Gene No. 95460  
 Start 11877  
 Name OJ000251\_47.0320.C1.o1.gp  
 Start 11877  
 GI 2227 1.R1084  
 Exons 11877..12077

Seq. ID OJ000251\_47.0320.C1  
 Strand -  
 End 12077  
 Method AAT/GAP  
 End 12077  
 Score 301

GI Descrip. '6006355/dbj|AP000559.1|AP000559 2.0e-56 Oryza sativa genomic DNA, chromosome 6, clone:P0493C11'

Seq. No. 45175  
 Gene No. 95461  
 Start 11907  
 Name OJ000251\_47.0320.C2.o4.gp  
 Start 11907  
 GI 964 1.R1084  
 Exons 11907..11964, 12073..12128, 13360..14547  
 GI Descrip. '3850816/emb|CAA77132.1| 1.0e-109 (Y18348) U2 snRNP auxiliary factor, small subunit [Oryza sativa]'

Seq. ID OJ000251\_47.0320.C2  
 Strand +  
 End 14547  
 Method AAT/GAP  
 End 14547  
 Score 2483

Seq. No. 45175  
 Gene No. 95461  
 Start 11907  
 Name OJ000251\_47.0320.C2.o1.np  
 Start 13391  
 GI 3850816  
 Exons 13391..14293  
 GI Descrip. (Y18348) U2 snRNP auxiliary factor, small subunit [Oryza sativa]

Seq. ID OJ000251\_47.0320.C2  
 Strand +  
 End 14547  
 Method AAT/NAP  
 End 14293  
 Score 1651

Seq. No. 45175  
 Gene No. 95461  
 Start 11907  
 Name OJ000251\_47.0320.C2.o4.gs  
 Start 13391  
 GI none  
 Exons 13391..14305

Seq. ID OJ000251\_47.0320.C2  
 Strand +  
 End 14547  
 Method GENSCAN  
 End 14305  
 Score .97

Seq. No. 45175  
 Gene No. 95462  
 Start 21081  
 Name OJ000251\_47.0320.C2.o5.gp  
 Start 19979  
 GI 4715001  
 Exons 19979..20695

Seq. ID OJ000251\_47.0320.C2  
 Strand +  
 End 23744  
 Method AAT/GAP  
 End 20695  
 Score 1377

Seq. No. 45175  
 Gene No. 95462  
 Start 21081  
 Name OJ000251\_47.0320.C2.o6.gp  
 Start 21029  
 GI none  
 Exons 21029..21588

Seq. ID OJ000251\_47.0320.C2  
 Strand +  
 End 23744  
 Method AAT/GAP  
 End 21588  
 Score 1100

Seq. No. 45175  
 Gene No. 95462  
 Start 21081  
 Name OJ000251\_47.0320.C2.o7.gs  
 Start 21081  
 GI none  
 Exons 21081..21828, 22011..22351, 23001..23096, 23175..23330, 23598..23744

Seq. ID OJ000251\_47.0320.C2  
 Strand +  
 End 23744  
 Method GENSCAN  
 End 23744  
 Score .9

Seq. No. 45175  
 Gene No. 95463  
 Start 23670  
 Name OJ000251\_47.0320.C2.o7.gp  
 Start 23670  
 GI 4715002  
 Exons 23670..24093

Seq. ID OJ000251\_47.0320.C2  
 Strand +  
 End 24093  
 Method AAT/GAP  
 End 24093  
 Score 781

Seq. No. 45175  
 Gene No. 95464  
 Start 1  
 Name OJ000251\_47.0320.C2.o1.gp  
 Start 1  
 GI none  
 Exons 1..256

Seq. ID OJ000251\_47.0320.C2  
 Strand -  
 End 256  
 Method AAT/GAP  
 End 256  
 Score 442

Seq. No. 45175  
 Gene No. 95465  
 Start 263  
 Name OJ000251\_47.0320.C2.o1.gs  
 Start 263  
 GI none  
 Exons 263..464, 1514..1667, 4869..5113, 5190..5597, 6779..6883,

Seq. ID OJ000251\_47.0320.C2  
 Strand -  
 End 8179  
 Method GENSCAN  
 End 8179  
 Score .59

7283..7392, 7849..8179

Seq. No.	45175	Seq. ID	OJ000251_47.0320.C2
Gene No.	95465	Strand	-
Start	263	End	8179
Name	OJ000251_47.0320.C2.o2.gp	Method	AAT/GAP
Start	4481	End	4940
GI	none	Score	855
Exons	4481..4940		

Seq. No.	45175	Seq. ID	OJ000251_47.0320.C2
Gene No.	95465	Strand	-
Start	263	End	8179
Name	OJ000251_47.0320.C2.o3.gp	Method	AAT/GAP
Start	6776	End	8032
GI	none	Score	752
Exons	6776..6883, 7283..7392, 7849..8032		

Seq. No.	45175	Seq. ID	OJ000251_47.0320.C2
Gene No.	95466	Strand	-
Start	9045	End	10670
Name	OJ000251_47.0320.C2.o2.gs	Method	GENSCAN
Start	9045	End	10670
GI	none	Score	.47
Exons	9045..9461, 9546..9846, 10224..10384, 10434..10670		

Seq. No.	45175	Seq. ID	OJ000251_47.0320.C2
Gene No.	95467	Strand	-
Start	11972	End	12472
Name	OJ000251_47.0320.C2.o3.gs	Method	GENSCAN
Start	11972	End	12472
GI	none	Score	.98
Exons	11972..12341, 12414..12472		

Seq. No.	45175	Seq. ID	OJ000251_47.0320.C2
Gene No.	95468	Strand	-
Start	15425	End	16925
Name	OJ000251_47.0320.C2.o5.gs	Method	GENSCAN
Start	15425	End	16925
GI	none	Score	.59
Exons	15425..15523, 16848..16925		

Seq. No.	45175	Seq. ID	OJ000251_47.0320.C2
Gene No.	95469	Strand	-
Start	18755	End	18963
Name	OJ000251_47.0320.C2.o6.gs	Method	GENSCAN
Start	18755	End	18963
GI	none	Score	.73
Exons	18755..18785, 18842..18963		

Seq. No.	45175	Seq. ID	OJ000251_47.0320.C2
Gene No.	95470	Strand	-
Start	24826	End	26249
Name	OJ000251_47.0320.C2.o2.tm	Method	TBLASTX:Maize
Start	9131	End	9810
GI	none	Score	449
Exons	9131..9334, 9138..9410, 9395..9418, 9477..9506, 9486..9806,		



9594..9809, 9727..9810

Seq. No.	45175	Seq. ID	OJ000251_47.0320.C2
Gene No.	95470	Strand	-
Start	24826	End	26249
Name	OJ000251_47.0320.C2.o3.ts	Method	TBLASTX:Soybean
Start	9138	End	9410
GI	none	Score	155
Exons	9138..9269, 9194..9271, 9290..9334, 9291..9410		

Seq. No.	45175	Seq. ID	OJ000251_47.0320.C2
Gene No.	95470	Strand	-
Start	24826	End	26249
Name	OJ000251_47.0320.C2.o3.tc	Method	TBLASTX:Cress
Start	9138	End	9803
GI	none	Score	145
Exons	9138..9269, 9194..9271, 9291..9410, 9633..9716, 9717..9803		

Seq. No.	45175	Seq. ID	OJ000251_47.0320.C2
Gene No.	95470	Strand	-
Start	24826	End	26249
Name	OJ000251_47.0320.C2.o1.ts	Method	TBLASTX:Soybean
Start	13378	End	13947
GI	none	Score	74
Exons	13378..13509, 13386..13751, 13391..13945, 13391..13753, 13660..13917, 13681..13947, 13785..13925, 13802..13942		

Seq. No.	45175	Seq. ID	OJ000251_47.0320.C2
Gene No.	95470	Strand	-
Start	24826	End	26249
Name	OJ000251_47.0320.C2.o1.tc	Method	TBLASTX:Cress
Start	13381	End	13696
GI	none	Score	94
Exons	13381..13572, 13390..13587, 13391..13696, 13605..13694		

Seq. No.	45175	Seq. ID	OJ000251_47.0320.C2
Gene No.	95470	Strand	-
Start	24826	End	26249
Name	OJ000251_47.0320.C2.o1.tm	Method	TBLASTX:Maize
Start	13391	End	14301
GI	none	Score	885
Exons	13391..13945, 13391..13942, 13608..13979, 13786..13947, 14225..14293, 14226..14297, 14226..14294, 14227..14301		

Seq. No.	45175	Seq. ID	OJ000251_47.0320.C2
Gene No.	95470	Strand	-
Start	24826	End	26249
Name	OJ000251_47.0320.C2.o1.tw	Method	TBLASTX:Wheat
Start	13522	End	13912
GI	none	Score	658
Exons	13522..13587, 13526..13912, 13526..13912		

Seq. No.	45175	Seq. ID	OJ000251_47.0320.C2.
Gene No.	95470	Strand	-
Start	24826	End	26249
Name	OJ000251_47.0320.C2.o3.tw	Method	TBLASTX:Wheat
Start	15414	End	26083

GI	none	Score	181
Exons	15414..15494, 25919..26083, 25921..26082		
Seq. No.	45175	Seq. ID	OJ000251_47.0320.C2
Gene No.	95470	Strand	-
Start	24826	End	26249
Name	OJ000251_47.0320.C2.o4.tm	Method	TBLASTX:Maize
Start	21075	End	21630
GI	none	Score	42
Exons	21075..21113, 21115..21534, 21115..21546, 21529..21630, 21547..21627		

Seq. No.	45175	Seq. ID	OJ000251_47.0320.C2
Gene No.	95470	Strand	-
Start	24826	End	26249
Name	OJ000251_47.0320.C2.o5.tm	Method	TBLASTX:Maize
Start	21669	End	24060
GI	none	Score	65
Exons	21669..21782, 21777..21827, 21783..21827, 21784..21834, 22040..22138, 22163..22204, 22211..22351, 22213..22347, 22990..23049, 23035..23130, 23043..23096, 23172..23300, 23174..23305, 23287..23331, 23297..23332, 23594..23761, 23597..23761, 23598..23765, 23877..23909, 23885..23908, 23964..24002, 23969..24013, 24010..24060		

Seq. No.	45175	Seq. ID	OJ000251_47.0320.C2
Gene No.	95470	Strand	-
Start	24826	End	26249
Name	OJ000251_47.0320.C2.o8.gp	Method	AAT/GAP
Start	24668	End	26249
GI	68292_1.R1084	Score	1882
Exons	24668..25261, 25865..26249		
GI Descrip.	'303742/dbj BAA02112  1.0e-102 (D12544) GTP-binding protein [Pisum sativum] >gi_738936_prf__2001457D GTP-binding protein [Pisum sativum]'		

Seq. No.	45175	Seq. ID	OJ000251_47.0320.C2
Gene No.	95470	Strand	-
Start	24826	End	26249
Name	OJ000251_47.0320.C2.o2.ts	Method	TBLASTX:Soybean
Start	24800	End	26080
GI	none	Score	207
Exons	24800..25261, 24801..25172, 24836..25264, 24868..25263, 25862..26080, 25864..26079		

Seq. No.	45175	Seq. ID	OJ000251_47.0320.C2
Gene No.	95470	Strand	-
Start	24826	End	26249
Name	OJ000251_47.0320.C2.o8.gs	Method	GENSCAN
Start	24826	End	26082
GI	none	Score	1
Exons	24826..25261, 25865..26082		

Seq. No.	45175	Seq. ID	OJ000251_47.0320.C2
Gene No.	95470	Strand	-
Start	24826	End	26249
Name	OJ000251_47.0320.C2.o2.np	Method	AAT/NAP

Start	24832	End	26085
GI	7438432	Score	968
Exons	24832..25261, 25865..26085		
GI Descrip.	GTP-binding protein - garden pea gi 303742 dbj BAA02112.1  (D12544) GTP-binding protein [Pisum sativum] gi 738936 prf  2001457D GTP-binding protein [Pisum sativum]		

Seq. No.	45175	Seq. ID	OJ000251_47.0320.C2
Gene No.	95470	Strand	-
Start	24826	End	26249
Name	OJ000251_47.0320.C2.o3.tm	Method	TBLASTX:Maize
Start	24833	End	26074
GI	none	Score	328
Exons	24833..25261, 24833..25249, 24871..25263, 25862..26074, 25864..26073		

Seq. No.	45175	Seq. ID	OJ000251_47.0320.C2
Gene No.	95470	Strand	-
Start	24826	End	26249
Name	OJ000251_47.0320.C2.o2.tw	Method	TBLASTX:Wheat
Start	24851	End	25917
GI	none	Score	373
Exons	24851..25264, 24851..25261, 24868..25263, 25864..25917		

Seq. No.	45175	Seq. ID	OJ000251_47.0320.C2
Gene No.	95470	Strand	-
Start	24826	End	26249
Name	OJ000251_47.0320.C2.o2.tc	Method	TBLASTX:Cress
Start	24904	End	26076
GI	none	Score	161
Exons	24904..25263, 24905..25264, 25862..26050, 25864..26076		

Seq. No.	45176	Seq. ID	OJ000251_47.0320.C3
Gene No.	95471	Strand	+
Start	149	End	11112
Name	OJ000251_47.0320.C3.o1.gs	Method	GENSCAN
Start	149	End	11112
GI	none	Score	.83
Exons	149..228, 329..369, 498..526, 2482..2683, 2772..3863, 6102..6238, 6719..6949, 9607..9865, 10026..10132, 10648..11112		

Seq. No.	45176	Seq. ID	OJ000251_47.0320.C3
Gene No.	95471	Strand	+
Start	149	End	11112
Name	OJ000251_47.0320.C3.o1.np	Method	AAT/NAP
Start	2509	End	3654
GI	2253582	Score	389
Exons	2509..2649, 2780..3070, 3128..3654		
GI Descrip.	(U78721) putative homeodomain transcription factor [Arabidopsis thaliana]		

Seq. No.	45176	Seq. ID	OJ000251_47.0320.C3
Gene No.	95472	Strand	+
Start	14958	End	16904
Name	OJ000251_47.0320.C3.o3.np	Method	AAT/NAP
Start	14958	End	16904
GI	5734757	Score	331

Exons 14958..15007, 15062..15173, 15228..15279, 16068..16146,  
16231..16348, 16848..16904  
GI Descrip. (AC007651) Unknown protein [Arabidopsis thaliana]

Seq. No.	45176	Seq. ID	OJ000251_47.0320.C3
Gene No.	95473	Strand	-
Start	6647	End	19029
Name	OJ000251_47.0320.C3.o1.ts	Method	TBLASTX:Soybean
Start	2789	End	2989
GI	none	Score	229
Exons	2789..2989, 2812..2967		

Seq. No.	45176	Seq. ID	OJ000251_47.0320.C3
Gene No.	95473	Strand	-
Start	6647	End	19029
Name	OJ000251_47.0320.C3.o2.np	Method	AAT/NAP
Start	6647	End	19029
GI	7531108	Score	240
Exons	6647..6750, 9907..10000, 11950..12163, 18956..19029		
GI Descrip.	ETHYLENE RESPONSIVE ELEMENT BINDING FACTOR 2 (ATERF2) gi 3434969 dbj BAA32419.1  (AB008104) ethylene responsive element binding factor 2 [Arabidopsis thaliana]		

Seq. No.	45176	Seq. ID	OJ000251_47.0320.C3
Gene No.	95473	Strand	-
Start	6647	End	19029
Name	OJ000251_47.0320.C3.o2.gs	Method	GENSCAN
Start	11656	End	13890
GI	none	Score	.75
Exons	11656..12293, 12363..12545, 13549..13609, 13693..13890		

Seq. No.	45176	Seq. ID	OJ000251_47.0320.C3
Gene No.	95473	Strand	-
Start	6647	End	19029
Name	OJ000251_47.0320.C3.o1.tm	Method	TBLASTX:Maize
Start	14848	End	16927
GI	none	Score	39
Exons	14848..14943, 14853..14906, 15017..15097, 15024..15104, 16066..16167, 16066..16104, 16070..16162, 16129..16173, 16216..16347, 16231..16353, 16232..16357, 16238..16348, 16841..16927, 16848..16916		

Seq. No.	45177	Seq. ID	OJ000251_47.0320.C4
Gene No.	95474	Strand	+
Start	617	End	4328
Name	OJ000251_47.0320.C4.o1.gp	Method	AAT/GAP
Start	617	End	2662
GI	624_1.R1084	Score	1523
Exons	617..697, 814..929, 1016..1079, 2105..2662		
GI Descrip.	'3128228 4.0e-92 (AC004077) putative ribosomal protein L18A [Arabidopsis thaliana] >gi_3337376 (AC004481) putative ribosomal protein L18A [Arabidopsis thaliana]'		

Seq. No.	45177	Seq. ID	OJ000251_47.0320.C4
Gene No.	95474	Strand	+
Start	617	End	4328
Name	OJ000251_47.0320.C4.o1.tm	Method	TBLASTX:Maize

Start	680	End	2640
GI	none	Score	38
Exons	680..697, 681..698, 805..948, 813..929, 1016..1087, 1017..1082, 2087..2455, 2104..2445, 2484..2537, 2587..2640		

Seq. No.	45177	Seq. ID	OJ000251_47.0320.C4
Gene No.	95474	Strand	+
Start	617	End	4328
Name	OJ000251_47.0320.C4.o1.gs	Method	GENSCAN
Start	683	End	4328
GI	none	Score	.64
Exons	683..697, 814..929, 1016..1079, 2105..2380, 4183..4328		

Seq. No.	45177	Seq. ID	OJ000251_47.0320.C4
Gene No.	95474	Strand	+
Start	617	End	4328
Name	OJ000251_47.0320.C4.o1.tw	Method	TBLASTX:Wheat
Start	768	End	2236
GI	none	Score	221
Exons	768..929, 769..948, 814..957, 1012..1080, 1016..1099, 1017..1082, 2087..2236, 2104..2235		

Seq. No.	45177	Seq. ID	OJ000251_47.0320.C4
Gene No.	95474	Strand	+
Start	617	End	4328
Name	OJ000251_47.0320.C4.o1.np	Method	AAT/NAP
Start	799	End	2443
GI	7440926	Score	784
Exons	799..929, 1016..1079, 2105..2443		
GI Descrip.	ribosomal protein L18a, cytosolic - Arabidopsis thaliana gi 3128228 gb AAC26708.1  (AC004077) 60S ribosomal protein L18A [Arabidopsis thaliana]		

Seq. No.	45177	Seq. ID	OJ000251_47.0320.C4
Gene No.	95474	Strand	+
Start	617	End	4328
Name	OJ000251_47.0320.C4.o1.ts	Method	TBLASTX:Soybean
Start	805	End	2451
GI	none	Score	211
Exons	805..948, 822..929, 1016..1099, 1017..1082, 2087..2446, 2102..2446, 2104..2448, 2104..2451		

Seq. No.	45177	Seq. ID	OJ000251_47.0320.C4
Gene No.	95474	Strand	+
Start	617	End	4328
Name	OJ000251_47.0320.C4.o1.tc	Method	TBLASTX:Cress
Start	811	End	2446
GI	none	Score	191
Exons	811..948, 822..929, 995..1099, 1017..1082, 2087..2446, 2102..2443, 2104..2445		

Seq. No.	45178	Seq. ID	OJ000251_47.0320.C5
Gene No.	95475	Strand	-
Start	76	End	608
Name	OJ000251_47.0320.C5.o1.gs	Method	GENSCAN
Start	76	End	608
GI	none	Score	.66

Exons 76..175, 217..242, 438..608

Seq. No.	45179	Seq. ID	OJ000251_47.0320.C6
Gene No.	95476	Strand	+
Start	1567	End	3570
Name	OJ000251_47.0320.C6.o1.np	Method	AAT/NAP
Start	1567	End	3292
GI	6685535	Score	1957
Exons	1567..3292		
GI Descrip.	PUTATIVE EUKARYOTIC TRANSLATION INITIATION FACTOR 3 SUBUNIT 7 (EIF-3 ZETA) gi 7486971 pir  T10640 hypothetical protein T13K14.140 - Arabidopsis thaliana gi 5262788 emb CAB45893.1  (AL080282) translation initiation factor eIF3-like protein [Arabidopsis thaliana] gi 7268895 emb CAB79098.1  (AL161554) translation initiation factor eIF3-like protein [Arabidopsis thalia		

Seq. No.	45179	Seq. ID	OJ000251_47.0320.C6
Gene No.	95476	Strand	+
Start	1567	End	3570
Name	OJ000251_47.0320.C6.o1.gs	Method	GENSCAN
Start	1576	End	3331
GI	none	Score	.71
Exons	1576..1884, 1898..3331		

Seq. No.	45179	Seq. ID	OJ000251_47.0320.C6
Gene No.	95476	Strand	+
Start	1567	End	3570
Name	OJ000251_47.0320.C6.o2.gp	Method	AAT/GAP
Start	1812	End	2102
GI	LIB3477-004-P1-K1-E3	Score	514
Exons	1812..2102		
GI Descrip.	'5262788/emb CAB45893.1  1.0e-12 (AL080282) translation initiation factor eIF3-like protein [Arabidopsis thaliana]'		

Seq. No.	45179	Seq. ID	OJ000251_47.0320.C6
Gene No.	95476	Strand	+
Start	1567	End	3570
Name	OJ000251_47.0320.C6.o3.gp	Method	AAT/GAP
Start	2243	End	2624
GI	68428_1.R1084	Score	705
Exons	2243..2624		
GI Descrip.	'5262788/emb CAB45893.1  4.0e-47 (AL080282) translation initiation factor eIF3-like protein [Arabidopsis thaliana]'		

Seq. No.	45179	Seq. ID	OJ000251_47.0320.C6
Gene No.	95476	Strand	+
Start	1567	End	3570
Name	OJ000251_47.0320.C6.o4.gp	Method	AAT/GAP
Start	2825	End	3570
GI	73609_1.R1084	Score	1398
Exons	2825..3570		
GI Descrip.	'5262788/emb CAB45893.1  9.0e-38 (AL080282) translation initiation factor eIF3-like protein [Arabidopsis thaliana]'		

Seq. No.	45179	Seq. ID	OJ000251_47.0320.C6
Gene No.	95477	Strand	-

Start	1	End	230
Name	OJ000251_47.0320.C6.o1.gp	Method	AAT/GAP
Start	1	End	230
GI	3963_1.R1084	Score	434
Exons	1..230		
GI Descrip.	'100535/pir  S12411 8.0e-18 hypothetical protein - swollen duckweed >gi_1929057_emb_CAA32236_ (X14075) longest ORF (1) [Lemna gibba]'		

Seq. No.	45179	Seq. ID	OJ000251_47.0320.C6
Gene No.	95478	Strand	-
Start	3862	End	7697
Name	OJ000251_47.0320.C6.o2.gs	Method	GENSCAN
Start	3862	End	7697
GI	none	Score	.62
Exons	3862..3927, 5220..5421, 5636..5764, 6161..6406, 7120..7234, 7619..7697		

Seq. No.	45179	Seq. ID	OJ000251_47.0320.C6
Gene No.	95479	Strand	-
Start	8060	End	9262
Name	OJ000251_47.0320.C6.o2.ts	Method	TBLASTX:Soybean
Start	1581	End	2310
GI	none	Score	80
Exons	1581..1634, 1582..1632, 1681..1743, 1683..1742, 1831..1905, 1832..1876, 1868..1930, 2021..2164, 2056..2166, 2147..2308, 2149..2310		

Seq. No.	45179	Seq. ID	OJ000251_47.0320.C6
Gene No.	95479	Strand	-
Start	8060	End	9262
Name	OJ000251_47.0320.C6.o3.tc	Method	TBLASTX:Cress
Start	1582	End	1912
GI	none	Score	77
Exons	1582..1632, 1584..1631, 1681..1740, 1683..1739, 1832..1876, 1868..1912		

Seq. No.	45179	Seq. ID	OJ000251_47.0320.C6
Gene No.	95479	Strand	-
Start	8060	End	9262
Name	OJ000251_47.0320.C6.o1.tm	Method	TBLASTX:Maize
Start	2054	End	3277
GI	none	Score	1786
Exons	2054..3226, 2056..3141, 2847..3167, 2972..3277		

Seq. No.	45179	Seq. ID	OJ000251_47.0320.C6
Gene No.	95479	Strand	-
Start	8060	End	9262
Name	OJ000251_47.0320.C6.o1.tc	Method	TBLASTX:Cress
Start	2213	End	2680
GI	none	Score	69
Exons	2213..2308, 2258..2419, 2263..2418, 2402..2680, 2404..2643, 2420..2680		

Seq. No.	45179	Seq. ID	OJ000251_47.0320.C6
Gene No.	95479	Strand	-
Start	8060	End	9262

Name	OJ000251_47.0320.C6.o1.ts	Method	TBLASTX:Soybean
Start	2311	End	3226
GI	none	Score	603
Exons	2311..2718, 2312..2719, 2312..2719, 2741..3226, 2746..3138, 2850..3173, 2972..3226		

Seq. No.	45179	Seq. ID	OJ000251_47.0320.C6
Gene No.	95479	Strand	-
Start	8060	End	9262
Name	OJ000251_47.0320.C6.o2.tc	Method	TBLASTX:Cress
Start	2755	End	3039
GI	none	Score	429
Exons	2755..3039, 2756..3037, 2758..3039		

Seq. No.	45179	Seq. ID	OJ000251_47.0320.C6
Gene No.	95479	Strand	-
Start	8060	End	9262
Name	OJ000251_47.0320.C6.o4.tc	Method	TBLASTX:Cress
Start	3091	End	3226
GI	none	Score	195
Exons	3091..3141, 3092..3226, 3092..3202		

Seq. No.	45179	Seq. ID	OJ000251_47.0320.C6
Gene No.	95479	Strand	-
Start	8060	End	9262
Name	OJ000251_47.0320.C6.o2.np	Method	AAT/NAP
Start	8060	End	9262
GI	7340924	Score	70
Exons	8060..8215, 9173..9262		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	45180	Seq. ID	OJ000251_47.0320.C7
Gene No.	95480	Strand	+
Start	1451	End	4057
Name	OJ000251_47.0320.C7.o1.gp	Method	AAT/GAP
Start	1451	End	2977
GI	4714622	Score	774
Exons	1451..1596, 2695..2977		
GI Descrip.	4512667/gb AAD21721.1  8.0e-22 (AC006931) putative MAP kinase [Arabidopsis thaliana]		

Seq. No.	45180	Seq. ID	OJ000251_47.0320.C7
Gene No.	95480	Strand	+
Start	1451	End	4057
Name	OJ000251_47.0320.C7.o1.tc	Method	TBLASTX:Cress
Start	2686	End	3727
GI	none	Score	492
Exons	2686..3132, 2722..3093, 3600..3716, 3602..3727, 3605..3724, 3613..3726		

Seq. No.	45180	Seq. ID	OJ000251_47.0320.C7
Gene No.	95480	Strand	+
Start	1451	End	4057
Name	OJ000251_47.0320.C7.o1.tm	Method	TBLASTX:Maize
Start	2692	End	3916
GI	none	Score	612
Exons	2692..3102, 2702..3103, 2703..3107, 2704..3108, 3584..3742,		



3602..3742, 3613..3744, 3634..3747, 3856..3915, 3857..3916,  
3857..3916

Seq. No.	45180	Seq. ID	OJ000251_47.0320.C7
Gene No.	95480	Strand	+
Start	1451	End	4057
Name	OJ000251_47.0320.C7.o1.ts	Method	TBLASTX:Soybean
Start	2692	End	3916
GI	none	Score	579
Exons	2692..3102, 2693..2998, 2703..3095, 3602..3742, 3613..3744, 3637..3747, 3856..3912, 3857..3916		

Seq. No.	45180	Seq. ID	OJ000251_47.0320.C7
Gene No.	95480	Strand	+
Start	1451	End	4057
Name	OJ000251_47.0320.C7.o1.np	Method	AAT/NAP
Start	2707	End	4057
GI	4512667	Score	871
Exons	2707..3103, 3615..3742, 3857..3916, 4037..4057		
GI Descrip.	(AC006931) putative MAP kinase [Arabidopsis thaliana]		

Seq. No.	45180	Seq. ID	OJ000251_47.0320.C7
Gene No.	95480	Strand	+
Start	1451	End	4057
Name	OJ000251_47.0320.C7.o1.tw	Method	TBLASTX:Wheat
Start	2761	End	3703
GI	none	Score	318
Exons	2761..3135, 2787..2852, 2827..3099, 3602..3703, 3613..3699		

Seq. No.	45181	Seq. ID	OJ000251_47.0320.C8
Gene No.	95481	Strand	+
Start	201	End	2519
Name	OJ000251_47.0320.C8.o1.gs	Method	GENSCAN
Start	201	End	1928
GI	none	Score	.89
Exons	201..350, 731..942, 1021..1113, 1314..1396, 1498..1928		

Seq. No.	45181	Seq. ID	OJ000251_47.0320.C8
Gene No.	95481	Strand	+
Start	201	End	2519
Name	OJ000251_47.0320.C8.o1.np	Method	AAT/NAP
Start	201	End	1925
GI	4512667	Score	791
Exons	201..350, 446..601, 731..942, 1021..1113, 1314..1419, 1455..1925		
GI Descrip.	(AC006931) putative MAP kinase [Arabidopsis thaliana]		

Seq. No.	45181	Seq. ID	OJ000251_47.0320.C8
Gene No.	95481	Strand	+
Start	201	End	2519
Name	OJ000251_47.0320.C8.o1.gp	Method	AAT/GAP
Start	854	End	1591
GI	78009_1.R1084	Score	634
Exons	854..942, 1021..1113, 1314..1396, 1498..1591		
GI Descrip.	'4512667/gb AAD21721.1  8.0e-22 (AC006931) putative MAP kinase [Arabidopsis thaliana]'		

Seq. No.	45181	Seq. ID	OJ000251_47.0320.C8
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Gene No. 95481  
 Start 201  
 Name OJ000251\_47.0320.C8.o2.gp  
 Start 1776  
 GI none  
 Exons 1776..2519

Strand +  
 End 2519  
 Method AAT/GAP  
 End 2519  
 Score 1389

Seq. No. 45181  
 Gene No. 95482  
 Start 2569  
 Name OJ000251\_47.0320.C8.o1.tm  
 Start 188  
 GI none  
 Exons 188..391, 192..353, 199..354, 441..605, 443..610, 448..612, 728..943, 730..945, 730..945, 1022..1072

Seq. ID OJ000251\_47.0320.C8  
 Strand -  
 End 9086  
 Method TBLASTX:Maize  
 End 1072  
 Score 254

Seq. No. 45181  
 Gene No. 95482  
 Start 2569  
 Name OJ000251\_47.0320.C8.o1.ts  
 Start 190  
 GI none  
 Exons 190..354, 192..353, 198..356, 199..354, 200..376, 443..604, 452..541, 459..602, 490..612, 728..940, 728..940, 730..942, 730..942, 1007..1069, 1022..1078, 1024..1083, 1085..1114, 1857..1964

Seq. ID OJ000251\_47.0320.C8  
 Strand -  
 End 9086  
 Method TBLASTX:Soybean  
 End 1964  
 Score 253

Seq. No. 45181  
 Gene No. 95482  
 Start 2569  
 Name OJ000251\_47.0320.C8.o1.tc  
 Start 192  
 GI none  
 Exons 192..353, 206..331, 437..598, 445..600, 445..600

Seq. ID OJ000251\_47.0320.C8  
 Strand -  
 End 9086  
 Method TBLASTX:Cress  
 End 600  
 Score 225

Seq. No. 45181  
 Gene No. 95482  
 Start 2569  
 Name OJ000251\_47.0320.C8.o2.tc  
 Start 729  
 GI none  
 Exons 729..890, 730..942, 731..940

Seq. ID OJ000251\_47.0320.C8  
 Strand -  
 End 9086  
 Method TBLASTX:Cress  
 End 942  
 Score 64

Seq. No. 45181  
 Gene No. 95482  
 Start 2569  
 Name OJ000251\_47.0320.C8.o1.tw  
 Start 1007  
 GI none  
 Exons 1007..1087, 1018..1056, 1022..1084, 1067..1114, 1088..1123, 1303..1353, 1306..1347, 1366..1398, 1369..1398, 1493..1726, 1494..1730, 1653..1730

Seq. ID OJ000251\_47.0320.C8  
 Strand -  
 End 9086  
 Method TBLASTX:Wheat  
 End 1730  
 Score 107

Seq. No. 45181  
 Gene No. 95482  
 Start 2569  
 Name OJ000251\_47.0320.C8.o2.tm

Seq. ID OJ000251\_47.0320.C8  
 Strand -  
 End 9086  
 Method TBLASTX:Maize

Start	1303	End	1928
GI	none	Score	56
Exons	1303..1350, 1311..1349, 1360..1398, 1365..1400, 1493..1762, 1494..1769, 1653..1769, 1761..1928, 1782..1928		

Seq. No.	45181	Seq. ID	OJ000251_47.0320.C8
Gene No.	95482	Strand	-
Start	2569	End	9086
Name	OJ000251_47.0320.C8.o2.gs	Method	GENSCAN
Start	2569	End	9086
GI	none	Score	.93
Exons	2569..2643, 2876..3196, 3783..3971, 4452..4565, 5128..5359, 5509..5708, 6051..6332, 6885..6995, 7523..7657, 7770..7917, 8917..9086		

Seq. No.	45181	Seq. ID	OJ000251_47.0320.C8
Gene No.	95482	Strand	-
Start	2569	End	9086
Name	OJ000251_47.0320.C8.o3.tm	Method	TBLASTX:Maize
Start	2836	End	3201
GI	none	Score	214
Exons	2836..3063, 2846..3091, 2846..3091, 2847..3128, 3080..3199, 3117..3200, 3118..3201		

Seq. No.	45181	Seq. ID	OJ000251_47.0320.C8
Gene No.	95482	Strand	-
Start	2569	End	9086
Name	OJ000251_47.0320.C8.o5.tm	Method	TBLASTX:Maize
Start	3774	End	3974
GI	none	Score	64
Exons	3774..3875, 3783..3872, 3784..3873, 3862..3972, 3870..3974, 3871..3972, 3879..3974		

Seq. No.	45181	Seq. ID	OJ000251_47.0320.C8
Gene No.	95482	Strand	-
Start	2569	End	9086
Name	OJ000251_47.0320.C8.o4.tm	Method	TBLASTX:Maize
Start	5611	End	7826
GI	none	Score	124
Exons	5611..5709, 5611..5709, 5613..5714, 6045..6335, 6051..6332, 6884..6997, 6885..6998, 6897..6998, 7517..7657, 7523..7657, 7542..7667, 7542..7658, 7770..7826, 7770..7823		

Seq. No.	45181	Seq. ID	OJ000251_47.0320.C8
Gene No.	95482	Strand	-
Start	2569	End	9086
Name	OJ000251_47.0320.C8.o3.tc	Method	TBLASTX:Cress
Start	6903	End	7865
GI	none	Score	80
Exons	6903..6998, 7520..7660, 7521..7667, 7773..7865, 7777..7863		

Seq. No.	45181	Seq. ID	OJ000251_47.0320.C8
Gene No.	95482	Strand	-
Start	2569	End	9086
Name	OJ000251_47.0320.C8.o3.gp	Method	AAT/GAP
Start	7843	End	8157
GI	none	Score	614

Exons 7843..8157

Seq. No.	45182	Seq. ID	OJ000251_47.0320.C9
Gene No.	95483	Strand	-
Start	279	End	1205
Name	OJ000251_47.0320.C9.o1.np	Method	AAT/NAP
Start	277	End	1081
GI	7022613	Score	287
Exons	277..446, 636..973, 1058..1081		
GI Descrip.	(AK001385) unnamed protein product [Homo sapiens]		

Seq. No.	45182	Seq. ID	OJ000251_47.0320.C9
Gene No.	95483	Strand	-
Start	279	End	1205
Name	OJ000251_47.0320.C9.o1.gs	Method	GENSCAN
Start	279	End	1205
GI	none	Score	.97
Exons	279..446, 636..973, 1058..1205		

Seq. No.	45182	Seq. ID	OJ000251_47.0320.C9
Gene No.	95483	Strand	-
Start	279	End	1205
Name	OJ000251_47.0320.C9.o1.tc	Method	TBLASTX:Cress
Start	304	End	896
GI	none	Score	95
Exons	304..432, 309..443, 621..890, 636..896		

Seq. No.	45182	Seq. ID	OJ000251_47.0320.C9
Gene No.	95483	Strand	-
Start	279	End	1205
Name	OJ000251_47.0320.C9.o1.tm	Method	TBLASTX:Maize
Start	309	End	1100
GI	none	Score	89
Exons	309..446, 316..447, 633..713, 633..974, 634..735, 756..902, 766..975, 1059..1100		

Seq. No.	45182	Seq. ID	OJ000251_47.0320.C9
Gene No.	95483	Strand	-
Start	279	End	1205
Name	OJ000251_47.0320.C9.o1.tw	Method	TBLASTX:Wheat
Start	661	End	1095
GI	none	Score	186
Exons	661..939, 663..938, 759..995, 943..987, 984..1094, 985..1095, 985..1095		

Seq. No.	45183	Seq. ID	OJ000251_47.0320.C10
Gene No.	95484	Strand	-
Start	58	End	2735
Name	OJ000251_47.0320.C10.o1.gs	Method	GENSCAN
Start	58	End	2735
GI	none	Score	.67
Exons	58..378, 997..1078, 2362..2453, 2555..2735		

Seq. No.	45184	Seq. ID	OJ000251_47.0320.C11
Gene No.	95485	Strand	+
Start	828	End	1106
Name	OJ000251_47.0320.C11.o1.gs	Method	GENSCAN

Start 828  
GI none  
Exons 828..1106

End 1106  
Score .76

Seq. No. 45184  
Gene No. 95486  
Start 3427  
Name OJ000251\_47.0320.C11.o1.np  
Start 3427  
GI 6907086  
Exons 3427..4157, 4218..4411, 4650..5108  
GI Descrip. (AP001129) hypothetical protein [Oryza sativa]

Seq. ID OJ000251\_47.0320.C11  
Strand +  
End 5108  
Method AAT/NAP  
End 5108  
Score 1068

Seq. No. 45184  
Gene No. 95487  
Start 1570  
Name OJ000251\_47.0320.C11.o1.gp  
Start 1570  
GI 38782\_1.R1084  
Exons 1570..2039  
GI Descrip. '6069643/dbj|AP000616.1|AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'

Seq. ID OJ000251\_47.0320.C11  
Strand -  
End 6197  
Method AAT/GAP  
End 2039  
Score 750

Seq. No. 45184  
Gene No. 95487  
Start 1570  
Name OJ000251\_47.0320.C11.o2.gs  
Start 1836  
GI none  
Exons 1836..1906, 2370..2594, 3084..3134, 3264..3306, 3708..4185, 4507..4632, 4713..4936, 5327..5540, 5887..6019, 6033..6197

Seq. ID OJ000251\_47.0320.C11  
Strand -  
End 6197  
Method GENSCAN  
End 6197  
Score .5

Seq. No. 45185  
Gene No. 95488  
Start 1478  
Name OJ000251\_47.0320.C12.o1.tw  
Start 1373  
GI none  
Exons 1373..1507, 1522..1755, 1547..1765, 1559..1765, 1587..1769

Seq. ID OJ000251\_47.0320.C12  
Strand +  
End 2275  
Method TBLASTX:Wheat  
End 1769  
Score 114

Seq. No. 45185  
Gene No. 95488  
Start 1478  
Name OJ000251\_47.0320.C12.o1.np  
Start 1478  
GI 6630696  
Exons 1478..2275  
GI Descrip. (AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]

Seq. ID OJ000251\_47.0320.C12  
Strand +  
End 2275  
Method AAT/NAP  
End 2275  
Score 1233

Seq. No. 45185  
Gene No. 95488  
Start 1478  
Name OJ000251\_47.0320.C12.o1.tm  
Start 1520  
GI none

Seq. ID OJ000251\_47.0320.C12  
Strand +  
End 2275  
Method TBLASTX:Maize  
End 1830  
Score 276

Exons 1520..1828, 1559..1825, 1567..1830

Seq. No.	45186	Seq. ID	OJ000251_47.0320.C13
Gene No.	95489	Strand	+
Start	1	End	1848
Name	OJ000251_47.0320.C13.o1.np	Method	AAT/NAP
Start	1	End	1848
GI	6630696	Score	2897

Exons 1..1848

GI Descrip. (AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]

Seq. No.	45186	Seq. ID	OJ000251_47.0320.C13
Gene No.	95489	Strand	+
Start	1	End	1848
Name	OJ000251_47.0320.C13.o1.tm	Method	TBLASTX:Maize
Start	1	End	364
GI	none	Score	226
Exons	1..288, 1..267, 2..304, 2..283, 302..364		

Seq. No.	45186	Seq. ID	OJ000251_47.0320.C13
Gene No.	95489	Strand	+
Start	1	End	1848
Name	OJ000251_47.0320.C13.o1.gs	Method	GENSCAN
Start	8	End	1799
GI	none	Score	.54
Exons	8..1142, 1259..1600, 1692..1799		

Seq. No.	45186	Seq. ID	OJ000251_47.0320.C13
Gene No.	95489	Strand	+
Start	1	End	1848
Name	OJ000251_47.0320.C13.o3.ts	Method	TBLASTX:Soybean
Start	314	End	694
GI	none	Score	82
Exons	314..463, 446..694		

Seq. No.	45186	Seq. ID	OJ000251_47.0320.C13
Gene No.	95489	Strand	+
Start	1	End	1848
Name	OJ000251_47.0320.C13.o2.tm	Method	TBLASTX:Maize
Start	452	End	916
GI	none	Score	293
Exons	452..916, 739..843		

Seq. No.	45186	Seq. ID	OJ000251_47.0320.C13
Gene No.	95489	Strand	+
Start	1	End	1848
Name	OJ000251_47.0320.C13.o2.tw	Method	TBLASTX:Wheat
Start	559	End	751
GI	none	Score	269
Exons	559..750, 560..751, 560..751		

Seq. No.	45186	Seq. ID	OJ000251_47.0320.C13
Gene No.	95489	Strand	+
Start	1	End	1848
Name	OJ000251_47.0320.C13.o2.ts	Method	TBLASTX:Soybean

Start	704	End	1102
GI	none	Score	209
Exons	704..925, 706..924, 929..1102		

  

Seq. No.	45186	Seq. ID	OJ000251_47.0320.C13
Gene No.	95489	Strand	+
Start	1	End	1848
Name	OJ000251_47.0320.C13.o1.tw	Method	TBLASTX:Wheat
Start	752	End	1506
GI	none	Score	550
Exons	752..1174, 759..917, 760..1191, 761..931, 772..1188, 957..1190, 1174..1506, 1323..1502		

Seq. No.	45186	Seq. ID	OJ000251_47.0320.C13
Gene No.	95489	Strand	+
Start	1	End	1848
Name	OJ000251_47.0320.C13.o1.ts	Method	TBLASTX:Soybean
Start	1426	End	1846
GI	5509260	Score	141
Exons	1426..1614, 1521..1601, 1610..1846		
GI Descrip.	-		

Seq. No.	45186	Seq. ID	OJ000251_47.0320.C13
Gene No.	95489	Strand	+
Start	1	End	1848
Name	OJ000251_47.0320.C13.o3.tm	Method	TBLASTX:Maize
Start	1432	End	1741
GI	none	Score	149
Exons	1432..1617, 1479..1604, 1610..1741, 1618..1740		

Seq. No.	45186	Seq. ID	OJ000251_47.0320.C13
Gene No.	95489	Strand	+
Start	1	End	1848
Name	OJ000251_47.0320.C13.o1.tc	Method	TBLASTX:Cress
Start	1519	End	1780
GI	none	Score	133
Exons	1519..1614, 1521..1607, 1610..1780		

Seq. No.	45186	Seq. ID	OJ000251_47.0320.C13
Gene No.	95489	Strand	+
Start	1	End	1848
Name	OJ000251_47.0320.C13.o3.tw	Method	TBLASTX:Wheat
Start	1561	End	1846
GI	none	Score	56
Exons	1561..1611, 1616..1846, 1618..1740		

Seq. No.	45187	Seq. ID	OJ000251_47.0320.C14
Gene No.	95490	Strand	+
Start	1	End	171
Name	OJ000251_47.0320.C14.o1.np	Method	AAT/NAP
Start	1	End	171
GI	6630696	Score	193
Exons	1..171		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	45187	Seq. ID	OJ000251_47.0320.C14
Gene No.	95491	Strand	
Start	311	End	662
Name	OJ000251_47.0320.C14.o1.tw	Method	TBLASTX:Wheat
Start	311	End	662
GI	none	Score	62
Exons	311..382, 311..388, 383..454, 384..452, 385..465, 391..453, 453..527, 454..531, 456..524, 458..532, 558..632, 558..662, 559..648, 639..662		

Seq. No.	45188	Seq. ID	OJ000251_47.0320.C15
Gene No.	95492	Strand	+
Start	259	End	338
Name	OJ000251_47.0320.C15.o1.gp	Method	AAT/GAP
Start	259	End	338
GI	LIB3477-003-P1-K1-E9	Score	118
Exons	259..338		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	45188	Seq. ID	OJ000251_47.0320.C15
Gene No.	95493	Strand	+
Start	5941	End	19053
Name	OJ000251_47.0320.C15.o2.gs	Method	GENSCAN
Start	5941	End	19053
GI	none	Score	.44
Exons	5941..6021, 6147..6248, 6426..6484, 6689..6752, 6945..7023, 9806..9879, 9954..10172, 12013..12082, 14782..15126, 15970..16134, 16615..16718, 16733..16925, 18902..19053		

Seq. No.	45188	Seq. ID	OJ000251_47.0320.C15
Gene No.	95494	Strand	-
Start	2213	End	5255
Name	OJ000251_47.0320.C15.o1.np	Method	AAT/NAP
Start	1161	End	5255
GI	7484934	Score	313
Exons	1161..1187, 2679..2813, 3163..3328, 5223..5255		
GI Descrip.	DNA-binding protein homolog T9A21.10 - Arabidopsis thaliana gi 4038481 emb CAA16788.1  (AL021713) DNA binding-like protein [Arabidopsis thaliana] gi 7268610 emb CAB78819.1  (AL161548) DNA binding-like protein [Arabidopsis thaliana]		

Seq. No.	45188	Seq. ID	OJ000251_47.0320.C15
Gene No.	95494	Strand	-
Start	2213	End	5255
Name	OJ000251_47.0320.C15.o2.gp	Method	AAT/GAP
Start	1827	End	2381
GI	none	Score	983
Exons	1827..2381		

Seq. No.	45188	Seq. ID	OJ000251_47.0320.C15
Gene No.	95494	Strand	-
Start	2213	End	5255
Name	OJ000251_47.0320.C15.o1.gs	Method	GENSCAN
Start	2213	End	5137
GI	none	Score	.99



Exons 2213..2810, 3187..3330, 4620..5137

Seq. No.	45188	Seq. ID	OJ000251_47.0320.C15
Gene No.	95494	Strand	-
Start	2213	End	5255
Name	OJ000251_47.0320.C15.o3.gp	Method	AAT/GAP
Start	4616	End	5060
GI	none	Score	854
Exons	4616..5060		

Seq. No.	45188	Seq. ID	OJ000251_47.0320.C15
Gene No.	95495	Strand	-
Start	7864	End	11090
Name	OJ000251_47.0320.C15.o2.np	Method	AAT/NAP
Start	7864	End	11090
GI	5852093	Score	77
Exons	7864..7949, 9585..9710, 11068..11090		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	45189	Seq. ID	OJ000251_47.0320.C16
Gene No.	95496	Strand	+
Start	247	End	468
Name	OJ000251_47.0320.C16.o1.gs	Method	GENSCAN
Start	247	End	468
GI	none	Score	.97
Exons	247..468		

Seq. No.	45189	Seq. ID	OJ000251_47.0320.C16
Gene No.	95497	Strand	-
Start	598	End	1631
Name	OJ000251_47.0320.C16.o2.gs	Method	GENSCAN
Start	598	End	1631
GI	none	Score	.86
Exons	598..761, 1144..1369, 1407..1569, 1623..1631		

Seq. No.	45190	Seq. ID	OJ000251_47.0320.C17
Gene No.	95498	Strand	+
Start	1962	End	2360
Name	OJ000251_47.0320.C17.o1.gs	Method	GENSCAN
Start	1962	End	2360
GI	none	Score	.98
Exons	1962..2360		

Seq. No.	45190	Seq. ID	OJ000251_47.0320.C17
Gene No.	95499	Strand	-
Start	2615	End	2800
Name	OJ000251_47.0320.C17.o2.gs	Method	GENSCAN
Start	2615	End	2800
GI	none	Score	.96
Exons	2615..2800		

Seq. No.	45191	Seq. ID	OJ000251_47.0320.C18
Gene No.	95500	Strand	+
Start	1	End	331
Name	OJ000251_47.0320.C18.o1.np	Method	AAT/NAP
Start	1	End	325
GI	6714326	Score	231

Exons	1..325		
GI Descrip.	(AC016972) putative dehydrogenase [Arabidopsis thaliana]		
Seq. No.	45191	Seq. ID	OJ000251_47.0320.C18
Gene No.	95500	Strand	+
Start	1	End	331
Name	OJ000251_47.0320.C18.o1.gs	Method	GENSCAN
Start	89	End	331
GI	none	Score	.86
Exons	89..331		
Seq. No.	45191	Seq. ID	OJ000251_47.0320.C18
Gene No.	95501	Strand	+
Start	1165	End	4057
Name	OJ000251_47.0320.C18.o2.np	Method	AAT/NAP
Start	1165	End	3797
GI	7448327	Score	443
Exons	1165..1210, 1838..1914, 2573..2647, 2735..2797, 2888..2947, 3053..3142, 3229..3336, 3424..3546, 3696..3797		
GI Descrip.	hypothetical protein slr2032 - Synechocystis sp. (strain PCC 6803) gi 1652164 dbj BAA17088.1  (D90903) hypothetical protein [Synechocystis sp.]		
Seq. No.	45191	Seq. ID	OJ000251_47.0320.C18
Gene No.	95501	Strand	+
Start	1165	End	4057
Name	OJ000251_47.0320.C18.o1.gp	Method	AAT/GAP
Start	1415	End	4057
GI	2481_1.R1084	Score	2086
Exons	1415..1644, 1849..1914, 2573..2647, 2735..2797, 2888..2947, 3062..3142, 3229..3336, 3424..3546, 3696..4057		
GI Descrip.	'4324678/gb AAD16984  1.0e-20 (AF109374) urease accessory protein UREG [Arabidopsis thaliana]'		
Seq. No.	45191	Seq. ID	OJ000251_47.0320.C18
Gene No.	95501	Strand	+
Start	1165	End	4057
Name	OJ000251_47.0320.C18.o2.gs	Method	GENSCAN
Start	1465	End	3824
GI	none	Score	.85
Exons	1465..1644, 1849..1914, 2573..2647, 2735..2797, 2888..2947, 3053..3142, 3229..3336, 3424..3546, 3696..3824		
Seq. No.	45191	Seq. ID	OJ000251_47.0320.C18
Gene No.	95502	Strand	+
Start	7801	End	8144
Name	OJ000251_47.0320.C18.o4.gp	Method	AAT/GAP
Start	7801	End	8144
GI	none	Score	584
Exons	7801..8144		
Seq. No.	45191	Seq. ID	OJ000251_47.0320.C18
Gene No.	95503	Strand	-
Start	4553	End	9460
Name	OJ000251_47.0320.C18.o2.ts	Method	TBLASTX:Soybean
Start	47	End	331
GI	none	Score	146

Exons 47..205, 212..331

Seq. No.	45191	Seq. ID	OJ000251_47.0320.C18
Gene No.	95503	Strand	-
Start	4553	End	9460
Name	OJ000251_47.0320.C18.o1.tm	Method	TBLASTX:Maize
Start	1465	End	3842
GI	none	Score	37
Exons	1465..1497, 1524..1643, 1840..1932, 1843..1914, 2570..2650, 2572..2646, 2729..2797, 2731..2799, 2734..2799, 2860..2943, 2861..2950, 2889..2954, 3037..3126, 3040..3141, 3041..3145, 3074..3145, 3226..3387, 3226..3330, 3231..3335, 3233..3349, 3421..3546, 3421..3501, 3423..3545, 3687..3842, 3696..3830		

Seq. No.	45191	Seq. ID	OJ000251_47.0320.C18
Gene No.	95503	Strand	-
Start	4553	End	9460
Name	OJ000251_47.0320.C18.o1.tw	Method	TBLASTX:Wheat
Start	2570	End	3333
GI	none	Score	128
Exons	2570..2650, 2572..2646, 2729..2797, 2734..2796, 2750..2800, 2861..2950, 2887..2943, 2888..2950, 3037..3141, 3041..3145, 3063..3140, 3071..3145, 3226..3333, 3226..3330, 3231..3332		

Seq. No.	45191	Seq. ID	OJ000251_47.0320.C18
Gene No.	95503	Strand	-
Start	4553	End	9460
Name	OJ000251_47.0320.C18.o2.gp	Method	AAT/GAP
Start	4553	End	5636
GI	3762889	Score	1135
Exons	4553..4882, 5004..5108, 5231..5352, 5533..5636		
GI Descrip.	4324678/gb AAD16984  1.0e-20 (AF109374) urease accessory protein UREG [Arabidopsis thaliana]		

Seq. No.	45191	Seq. ID	OJ000251_47.0320.C18
Gene No.	95503	Strand	-
Start	4553	End	9460
Name	OJ000251_47.0320.C18.o2.tm	Method	TBLASTX:Maize
Start	4761	End	5585
GI	none	Score	145
Exons	4761..4898, 4782..4883, 4799..4885, 4995..5108, 4995..5108, 5219..5353, 5228..5353, 5230..5355, 5472..5579, 5529..5585, 5534..5584		

Seq. No.	45191	Seq. ID	OJ000251_47.0320.C18
Gene No.	95503	Strand	-
Start	4553	End	9460
Name	OJ000251_47.0320.C18.o1.tc	Method	TBLASTX:Cress
Start	4791	End	6974
GI	none	Score	105
Exons	4791..4883, 4799..4885, 4995..5108, 4995..5108, 5002..5115, 5219..5359, 5228..5353, 5230..5358, 5472..5729, 5529..5735, 5534..5734, 6093..6155, 6094..6156, 6927..6974		

Seq. No.	45191	Seq. ID	OJ000251_47.0320.C18
Gene No.	95503	Strand	-
Start	4553	End	9460

Name	OJ000251_47.0320.C18.o1.ts	Method	TBLASTX:Soybean
Start	4799	End	7061
GI	none	Score	83
Exons	4799..4885, 4806..4883, 4992..5108, 4995..5108, 5228..5353, 5229..5312, 5254..5367, 5529..5735, 5532..5729, 5534..5734, 6093..6155, 6930..7016, 6962..7015, 7026..7061		

Seq. No.	45191	Seq. ID	OJ000251_47.0320.C18
Gene No.	95503	Strand	-
Start	4553	End	9460
Name	OJ000251_47.0320.C18.o3.gs	Method	GENSCAN
Start	4799	End	9394
GI	none	Score	.78
Exons	4799..4882, 5004..5108, 5231..5352, 5533..5734, 6363..6393, 6930..7136, 7229..7409, 7551..7818, 7939..8260, 8356..8504, 8883..8942, 9341..9394		

Seq. No.	45191	Seq. ID	OJ000251_47.0320.C18
Gene No.	95503	Strand	-
Start	4553	End	9460
Name	OJ000251_47.0320.C18.o3.np	Method	AAT/NAP
Start	4802	End	7308
GI	7488416	Score	960
Exons	4802..4882, 5004..5108, 5231..5352, 5533..5734, 6096..6156, 6930..7127, 7250..7308		
GI Descrip.	urease accessory protein G homolog F13P17.30 - Arabidopsis thaliana gi 3128220 gb AAC26700.1  (AC004077) putative urease accessory protein [Arabidopsis thaliana]		

Seq. No.	45191	Seq. ID	OJ000251_47.0320.C18
Gene No.	95503	Strand	-
Start	4553	End	9460
Name	OJ000251_47.0320.C18.o5.tm	Method	TBLASTX:Maize
Start	5586	End	7090
GI	none	Score	241
Exons	5586..5735, 5586..5732, 5588..5734, 6093..6155, 6094..6156, 6927..7016, 6962..7015, 7026..7061, 7063..7086, 7064..7090		

Seq. No.	45191	Seq. ID	OJ000251_47.0320.C18
Gene No.	95503	Strand	-
Start	4553	End	9460
Name	OJ000251_47.0320.C18.o3.gp	Method	AAT/GAP
Start	7037	End	7329
GI	2442619	Score	312
Exons	7037..7136, 7229..7329		

Seq. No.	45191	Seq. ID	OJ000251_47.0320.C18
Gene No.	95503	Strand	-
Start	4553	End	9460
Name	OJ000251_47.0320.C18.o3.tm	Method	TBLASTX:Maize
Start	7923	End	8411
GI	none	Score	40
Exons	7923..7970, 8047..8262, 8063..8263, 8355..8411, 8361..8408		

Seq. No.	45191	Seq. ID	OJ000251_47.0320.C18
Gene No.	95503	Strand	-
Start	4553	End	9460

Name	OJ000251_47.0320.C18.o4.np	Method	AAT/NAP
Start	7936	End	8888
GI	3201616	Score	393
Exons	7936..8260, 8356..8504, 8600..8888		
GI Descrip.	(AC004669) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45191	Seq. ID	OJ000251_47.0320.C18
Gene No.	95503	Strand	-
Start	4553	End	9460
Name	OJ000251_47.0320.C18.o3.ts	Method	TBLASTX:Soybean
Start	8053	End	8248
GI	none	Score	90
Exons	8053..8247, 8063..8248		

Seq. No.	45191	Seq. ID	OJ000251_47.0320.C18
Gene No.	95503	Strand	-
Start	4553	End	9460
Name	OJ000251_47.0320.C18.o4.tm	Method	TBLASTX:Maize
Start	8412	End	8767
GI	none	Score	106
Exons	8412..8507, 8413..8508, 8600..8767, 8601..8627, 8612..8767		

Seq. No.	45191	Seq. ID	OJ000251_47.0320.C18
Gene No.	95503	Strand	-
Start	4553	End	9460
Name	OJ000251_47.0320.C18.o5.gp	Method	AAT/GAP
Start	8898	End	9460
GI	none	Score	1051
Exons	8898..9460		

Seq. No.	45192	Seq. ID	OJ000251_47.0320.C19
Gene No.	95504	Strand	-
Start	1	End	743
Name	OJ000251_47.0320.C19.o1.np	Method	AAT/NAP
Start	1	End	743
GI	6630696	Score	1172
Exons	1..743		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	45192	Seq. ID	OJ000251_47.0320.C19
Gene No.	95504	Strand	-
Start	1	End	743
Name	OJ000251_47.0320.C19.o1.tw	Method	TBLASTX:Wheat
Start	2	End	241
GI	none	Score	156
Exons	2..151, 2..151, 3..152, 3..158, 153..236, 167..241, 168..236, 172..240		

Seq. No.	45192	Seq. ID	OJ000251_47.0320.C19
Gene No.	95504	Strand	-
Start	1	End	743
Name	OJ000251_47.0320.C19.o1.gs	Method	GENSCAN
Start	42	End	548
GI	none	Score	.6
Exons	42..548		

Seq. No.	45192	Seq. ID	OJ000251_47.0320.C19
Gene No.	95504	Strand	-
Start	1	End	743
Name	OJ000251_47.0320.C19.o1.tm	Method	TBLASTX:Maize
Start	98	End	445
GI	none	Score	287
Exons	98..445, 99..431, 101..439		

Seq. No.	45192	Seq. ID	OJ000251_47.0320.C19
Gene No.	95504	Strand	-
Start	1	End	743
Name	OJ000251_47.0320.C19.o2.tw	Method	TBLASTX:Wheat
Start	242	End	742
GI	none	Score	50
Exons	242..295, 431..655, 477..581, 650..742		

Seq. No.	45192	Seq. ID	OJ000251_47.0320.C19
Gene No.	95504	Strand	-
Start	1	End	743
Name	OJ000251_47.0320.C19.o1.ts	Method	TBLASTX:Soybean
Start	245	End	596
GI	none	Score	65
Exons	245..427, 248..433, 249..434, 437..595, 468..596		

Seq. No.	45193	Seq. ID	OJ000251_47.0320.C22
Gene No.	95505	Strand	+
Start	57	End	349
Name	OJ000251_47.0320.C22.o1.gs	Method	GENSCAN
Start	57	End	349
GI	none	Score	.87
Exons	57..158, 303..349		

Seq. No.	45193	Seq. ID	OJ000251_47.0320.C22
Gene No.	95506	Strand	+
Start	5475	End	7136
Name	OJ000251_47.0320.C22.o3.gs	Method	GENSCAN
Start	5475	End	7136
GI	none	Score	.68
Exons	5475..5508, 6341..6345, 6557..6726, 6908..7136		

Seq. No.	45193	Seq. ID	OJ000251_47.0320.C22
Gene No.	95507	Strand	+
Start	7307	End	8242
Name	OJ000251_47.0320.C22.o4.gs	Method	GENSCAN
Start	7307	End	8242
GI	none	Score	.99
Exons	7307..8242		

Seq. No.	45193	Seq. ID	OJ000251_47.0320.C22
Gene No.	95508	Strand	+
Start	8290	End	8880
Name	OJ000251_47.0320.C22.o2.gp	Method	AAT/GAP
Start	8290	End	8880
GI	none	Score	1148
Exons	8290..8880		

Seq. No.	45193	Seq. ID	OJ000251_47.0320.C22
Gene No.	95509	Strand	+
Start	20026	End	20253
Name	OJ000251_47.0320.C22.o5.gp	Method	AAT/GAP
Start	20026	End	20253
GI	426857	Score	290
Exons	20026..20253		
Seq. No.	45193	Seq. ID	OJ000251_47.0320.C22
Gene No.	95510	Strand	+
Start	21433	End	22076
Name	OJ000251_47.0320.C22.o6.gp	Method	AAT/GAP
Start	21433	End	22076
GI	80594_1.R1084	Score	607
Exons	21433..21483, 21756..22076		
GI Descrip.	'5257290/gb AAD41269.1  2.0e-14 (AF124739) unknown [Zea mays]'		
Seq. No.	45193	Seq. ID	OJ000251_47.0320.C22
Gene No.	95510	Strand	+
Start	21433	End	22076
Name	OJ000251_47.0320.C22.o3.np	Method	AAT/NAP
Start	21440	End	21917
GI	5257290	Score	250
Exons	21440..21483, 21756..21917		
GI Descrip.	(AF124739) unknown [Zea mays]		
Seq. No.	45193	Seq. ID	OJ000251_47.0320.C22
Gene No.	95511	Strand	-
Start	1	End	17312
Name	OJ000251_47.0320.C22.o1.np	Method	AAT/NAP
Start	1	End	3449
GI	2499819	Score	1350
Exons	1..105, 856..920, 1001..1040, 1113..1281, 1661..1773, 1865..1959, 2923..2983, 3093..3449		
GI Descrip.	ASPARTIC PROTEINASE ORYZASIN 1 PRECURSOR gi 2130068 pir  S66516 aspartic proteinase 1 precursor - rice gi 1030715 dbj BAA06876.1  (D32165) aspartic protease [Oryza sativa] gi 1711289 dbj BAA06875  (D32144) aspartic protease [Oryza sativa]		
Seq. No.	45193	Seq. ID	OJ000251_47.0320.C22
Gene No.	95511	Strand	-
Start	1	End	17312
Name	OJ000251_47.0320.C22.o2.np	Method	AAT/NAP
Start	559	End	15659
GI	7485519	Score	327
Exons	559..621, 8713..8913, 9351..9583, 9629..9889, 10164..10241, 10693..10851, 10935..11212, 11955..12466, 12913..13201, 13458..13501, 15485..15659		
GI Descrip.	hypothetical protein F15J5.120 - Arabidopsis thaliana gi 5817001 emb CAB53656.1  (AL110123) hypothetical protein [Arabidopsis thaliana] gi 7268608 emb CAB78817.1  (AL161548) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	45193	Seq. ID	OJ000251_47.0320.C22
Gene No.	95511	Strand	-
Start	1	End	17312

Name OJ000251\_47.0320.C22.o1.gp Method AAT/GAP  
 Start 845 End 4132  
 GI 209\_1.R1084 Score 1747  
 Exons 845..920, 1001..1040, 1113..1281, 1661..1773, 1865..1959,  
 2923..2983, 3093..3458, 4088..4132  
 GI Descrip. '2499819/sp|Q42456|APR1\_ORYSA 0.0e+00 ASPARTIC PROTEINASE  
 ORYZASIN 1 PRECURSOR >gi\_2130068\_pir\_S66516 aspartic proteinase  
 1 precursor - rice >gi\_1030715\_dbj\_BAA06876\_ (D32165) aspartic  
 protease [Oryza sativa] >gi\_1711289\_dbj\_BAA06875\_ (D32144)  
 aspartic protease [Oryza sativa]'

Seq. No. 45193 Seq. ID OJ000251\_47.0320.C22  
 Gene No. 95511 Strand -  
 Start 1 End 17312  
 Name OJ000251\_47.0320.C22.o2.gs Method GENSCAN  
 Start 891 End 3449  
 GI none Score .86  
 Exons 891..920, 1113..1281, 1661..1773, 1865..1959, 2923..2983,  
 3093..3449

Seq. No. 45193 Seq. ID OJ000251\_47.0320.C22  
 Gene No. 95511 Strand -  
 Start 1 End 17312  
 Name OJ000251\_47.0320.C22.o5.gs Method GENSCAN  
 Start 8626 End 17312  
 GI none Score .79  
 Exons 8626..8910, 9351..9737, 10086..10241, 10741..10870,  
 10957..11242, 11853..12177, 12349..12414, 12930..13005,  
 13488..13501, 15507..15770, 17253..17312

Seq. No. 45193 Seq. ID OJ000251\_47.0320.C22  
 Gene No. 95511 Strand -  
 Start 1 End 17312  
 Name OJ000251\_47.0320.C22.o3.gp Method AAT/GAP  
 Start 9412 End 10204  
 GI none Score 1056  
 Exons 9412..9848, 10086..10204

Seq. No. 45193 Seq. ID OJ000251\_47.0320.C22  
 Gene No. 95511 Strand -  
 Start 1 End 17312  
 Name OJ000251\_47.0320.C22.o4.gp Method AAT/GAP  
 Start 11021 End 12044  
 GI 3759810 Score 771  
 Exons 11021..11242, 11853..12044

Seq. No. 45193 Seq. ID OJ000251\_47.0320.C22  
 Gene No. 95512 Strand -  
 Start 19063 End 27429  
 Name OJ000251\_47.0320.C22.o2.tm Method TBLASTX:Maize  
 Start 842 End 3455  
 GI none Score 92  
 Exons 842..922, 856..924, 1000..1044, 1113..1283, 1113..1280,  
 1115..1282, 1647..1775, 1654..1776, 1658..1780, 1660..1773,  
 1855..1959, 1857..1961, 1865..1960, 2921..2983, 2922..2984,  
 2925..2984, 3043..3198, 3087..3233, 3094..3225, 3291..3449,  
 3312..3455



Seq. No.	45193	Seq. ID	OJ000251_47.0320.C22
Gene No.	95512	Strand	-
Start	19063	End	27429
Name	OJ000251_47.0320.C22.o1.ts	Method	TBLASTX:Soybean
Start	845	End	3144
GI	none	Score	84
Exons	845..922, 856..924, 999..1043, 1000..1044, 1003..1050, 1113..1283, 1113..1280, 1115..1282, 1658..1774, 1660..1773, 1865..1960, 1869..1961, 2921..2989, 3090..3140, 3091..3144		

Seq. No.	45193	Seq. ID	OJ000251_47.0320.C22
Gene No.	95512	Strand	-
Start	19063	End	27429
Name	OJ000251_47.0320.C22.o1.tc	Method	TBLASTX:Cress
Start	856	End	1278
GI	none	Score	97
Exons	856..924, 857..922, 999..1043, 1000..1044, 1044..1277, 1113..1274, 1222..1278		

Seq. No.	45193	Seq. ID	OJ000251_47.0320.C22
Gene No.	95512	Strand	-
Start	19063	End	27429
Name	OJ000251_47.0320.C22.o2.tw	Method	TBLASTX:Wheat
Start	856	End	1268
GI	none	Score	83
Exons	856..924, 857..922, 1017..1043, 1113..1268, 1113..1268		

Seq. No.	45193	Seq. ID	OJ000251_47.0320.C22
Gene No.	95512	Strand	-
Start	19063	End	27429
Name	OJ000251_47.0320.C22.o2.tc	Method	TBLASTX:Cress
Start	1640	End	3233
GI	none	Score	71
Exons	1640..1723, 1654..1776, 1658..1780, 1660..1773, 1857..1961, 1865..1960, 2921..2983, 3087..3233, 3091..3228		

Seq. No.	45193	Seq. ID	OJ000251_47.0320.C22
Gene No.	95512	Strand	-
Start	19063	End	27429
Name	OJ000251_47.0320.C22.o1.tw	Method	TBLASTX:Wheat
Start	2957	End	3480
GI	none	Score	128
Exons	2957..2983, 3087..3191, 3090..3191, 3094..3195, 3186..3233, 3186..3233, 3303..3458, 3315..3458, 3319..3480		

Seq. No.	45193	Seq. ID	OJ000251_47.0320.C22
Gene No.	95512	Strand	-
Start	19063	End	27429
Name	OJ000251_47.0320.C22.o3.tc	Method	TBLASTX:Cress
Start	8641	End	9836
GI	none	Score	94
Exons	8641..8769, 8851..8904, 9378..9446, 9489..9563, 9588..9653, 9672..9836, 9673..9801		

Seq. No.	45193	Seq. ID	OJ000251_47.0320.C22
Gene No.	95512	Strand	-

Start	19063	End	27429
Name	OJ000251_47.0320.C22.o3.tm	Method	TBLASTX:Maize
Start	8642	End	10273
GI	none	Score	86
Exons	8642..8725, 8644..8775, 8644..8736, 8796..8879, 8805..8879, 8848..8913, 8875..8913, 9351..9509, 9352..9465, 9374..9517, 9582..9665, 9583..9666, 10080..10181, 10087..10185, 10173..10241, 10175..10273, 10177..10242		

Seq. No.	45193	Seq. ID	OJ000251_47.0320.C22
Gene No.	95512	Strand	-
Start	19063	End	27429
Name	OJ000251_47.0320.C22.o2.ts	Method	TBLASTX:Soybean
Start	9351	End	9791
GI	none	Score	45
Exons	9351..9512, 9459..9524, 9489..9563, 9588..9653, 9592..9618, 9675..9755, 9756..9791		

Seq. No.	45193	Seq. ID	OJ000251_47.0320.C22
Gene No.	95512	Strand	-
Start	19063	End	27429
Name	OJ000251_47.0320.C22.o1.tm	Method	TBLASTX:Maize
Start	9675	End	12447
GI	none	Score	56
Exons	9675..9749, 9676..9750, 9750..9851, 9757..9843, 9776..9868, 10601..10663, 10605..10661, 10675..10872, 10677..10868, 10679..10873, 10966..11019, 10967..11017, 11041..11247, 11041..11241, 11042..11242, 11091..11264, 11848..11970, 11848..11973, 11962..12273, 11980..12324, 12271..12342, 12272..12337, 12280..12342, 12343..12411, 12344..12400, 12354..12410, 12361..12417, 12409..12447		

Seq. No.	45193	Seq. ID	OJ000251_47.0320.C22
Gene No.	95512	Strand	-
Start	19063	End	27429
Name	OJ000251_47.0320.C22.o3.tw	Method	TBLASTX:Wheat
Start	10104	End	10818
GI	none	Score	77
Exons	10104..10181, 10105..10185, 10173..10259, 10177..10242, 10433..10516, 10597..10662, 10600..10659, 10601..10660, 10602..10667, 10663..10818, 10665..10805, 10679..10816		

Seq. No.	45193	Seq. ID	OJ000251_47.0320.C22
Gene No.	95512	Strand	-
Start	19063	End	27429
Name	OJ000251_47.0320.C22.o4.tm	Method	TBLASTX:Maize
Start	15480	End	15620
GI	none	Score	135
Exons	15480..15620, 15504..15602		

Seq. No.	45193	Seq. ID	OJ000251_47.0320.C22
Gene No.	95512	Strand	-
Start	19063	End	27429
Name	OJ000251_47.0320.C22.o6.gs	Method	GENSCAN
Start	19063	End	27429
GI	none	Score	.51
Exons	19063..19163, 19440..19652, 19836..19965, 19989..20161,		

20266..20333, 20400..20572, 20664..20686, 21467..21524,  
24751..24802, 24862..25144, 25174..25263, 25438..25711,  
27078..27119, 27268..27429

Seq. No.	45194	Seq. ID	OJ000251_47.0320.C23
Gene No.	95513	Strand	+
Start	711	End	1539
Name	OJ000251_47.0320.C23.o1.gp	Method	AAT/GAP
Start	711	End	1539
GI	3963_1.R1084	Score	523
Exons	711..855, 937..999, 1158..1205, 1313..1372, 1519..1539		
GI Descrip.	'100535/pir  S12411 8.0e-18 hypothetical protein - swollen duckweed >gi_1929057_emb_CAA32236_ (X14075) longest ORF (1) [Lemna gibba]'		

Seq. No.	45194	Seq. ID	OJ000251_47.0320.C23
Gene No.	95513	Strand	+
Start	711	End	1539
Name	OJ000251_47.0320.C23.o1.gs	Method	GENSCAN
Start	733	End	1065
GI	none	Score	.54
Exons	733..855, 937..1065		

Seq. No.	45194	Seq. ID	OJ000251_47.0320.C23
Gene No.	95513	Strand	+
Start	711	End	1539
Name	OJ000251_47.0320.C23.o1.np	Method	AAT/NAP
Start	946	End	1539
GI	4164473	Score	116
Exons	946..999, 1158..1205, 1313..1372, 1512..1539		
GI Descrip.	(AF061157) negatively light-regulated protein [Vernicia fordii]		

Seq. No.	45195	Seq. ID	OJ000251_43.0320.C4
Gene No.	95514	Strand	+
Start	7559	End	10207
Name	OJ000251_43.0320.C4.o2.gs	Method	GENSCAN
Start	7559	End	10207
GI	none	Score	.9
Exons	7559..7681, 8304..8332, 10018..10207		

Seq. No.	45195	Seq. ID	OJ000251_43.0320.C4
Gene No.	95515	Strand	-
Start	877	End	4012
Name	OJ000251_43.0320.C4.o1.gs	Method	GENSCAN
Start	877	End	4012
GI	none	Score	.42
Exons	877..1141, 1649..1742, 2778..2909, 3237..3345, 3428..3588, 3964..4012		

Seq. No.	45195	Seq. ID	OJ000251_43.0320.C4
Gene No.	95516	Strand	-
Start	17574	End	20353
Name	OJ000251_43.0320.C4.o4.gs	Method	GENSCAN
Start	17574	End	20353
GI	none	Score	.74
Exons	17574..17948, 17993..18454, 19160..19290, 19781..19847, 19888..20353		

Seq. No.	45195	Seq. ID	OJ000251_43.0320.C4
Gene No.	95516	Strand	-
Start	17574	End	20353
Name	OJ000251_43.0320.C4.o1.np	Method	AAT/NAP
Start	17610	End	20249
GI	7433183	Score	1426
Exons	17610..17915, 17993..18421, 19888..20249		
GI Descrip.	naringenin 3-dioxygenase (EC 1.14.11.9) - maize gi 467996 gb AAA91227.1  (U04434) flavanone 3-beta-hydroxylase [Zea mays]		

Seq. No.	45195	Seq. ID	OJ000251_43.0320.C4
Gene No.	95516	Strand	-
Start	17574	End	20353
Name	OJ000251_43.0320.C4.o1.tc	Method	TBLASTX:Cress
Start	17715	End	20193
GI	none	Score	60
Exons	17715..17780, 17724..17915, 17749..17913, 17853..17924, 17993..18316, 17993..18445, 18000..18422, 18368..18433, 19888..20085, 19888..20058, 20098..20193, 20117..20188		

Seq. No.	45195	Seq. ID	OJ000251_43.0320.C4
Gene No.	95516	Strand	-
Start	17574	End	20353
Name	OJ000251_43.0320.C4.o1.ts	Method	TBLASTX:Soybean
Start	17724	End	20193
GI	none	Score	127
Exons	17724..17915, 17806..17913, 17824..17919, 17847..17924, 17993..18445, 17994..18446, 19888..20058, 19888..20058, 20098..20193, 20117..20185		

Seq. No.	45195	Seq. ID	OJ000251_43.0320.C4
Gene No.	95516	Strand	-
Start	17574	End	20353
Name	OJ000251_43.0320.C4.o1.tw	Method	TBLASTX:Wheat
Start	17993	End	18325
GI	none	Score	359
Exons	17993..18325, 18000..18323		

Seq. No.	45195	Seq. ID	OJ000251_43.0320.C4
Gene No.	95516	Strand	-
Start	17574	End	20353
Name	OJ000251_43.0320.C4.o1.tm	Method	TBLASTX:Maize
Start	18014	End	18350
GI	none	Score	395
Exons	18014..18340, 18015..18341, 18240..18350		

Seq. No.	45195	Seq. ID	OJ000251_43.0320.C4
Gene No.	95516	Strand	-
Start	17574	End	20353
Name	OJ000251_43.0320.C4.o2.tm	Method	TBLASTX:Maize
Start	19978	End	20193
GI	none	Score	250
Exons	19978..20193, 19978..20193		

Seq. No.	45196	Seq. ID	OJ000251_43.0320.C5
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Gene No. 95517  
 Start 672  
 Name OJ000251\_43.0320.C5.o1.gs  
 Start 672  
 GI none  
 Exons 672..796

Strand +  
 End 796  
 Method GENSCAN  
 End 796  
 Score .67

Seq. No. 45196  
 Gene No. 95518  
 Start 1122  
 Name OJ000251\_43.0320.C5.o1.gp  
 Start 1122  
 GI none  
 Exons 1122..1685

Seq. ID OJ000251\_43.0320.C5  
 Strand +  
 End 1685  
 Method AAT/GAP  
 End 1685  
 Score 1097

Seq. No. 45196  
 Gene No. 95519  
 Start 1577  
 Name OJ000251\_43.0320.C5.o1.np  
 Start 1561  
 GI 6642638  
 Exons 1561..2221, 2264..2811  
 GI Descrip. (AC012395) GTP cyclohydrolase I [Arabidopsis thaliana]

Seq. ID OJ000251\_43.0320.C5  
 Strand -  
 End 2811  
 Method AAT/NAP  
 End 2811  
 Score 908

Seq. No. 45196  
 Gene No. 95519  
 Start 1577  
 Name OJ000251\_43.0320.C5.o1.tm  
 Start 1569  
 GI none  
 Exons 1569..1817, 1574..2050, 1575..1850, 1576..1956, 1586..2050, 2043..2168, 2048..2131, 2052..2168, 2053..2172, 2195..2542, 2196..2543, 2211..2555, 2221..2544

Seq. ID OJ000251\_43.0320.C5  
 Strand -  
 End 2811  
 Method TBLASTX:Maize  
 End 2555  
 Score 368

Seq. No. 45196  
 Gene No. 95519  
 Start 1577  
 Name OJ000251\_43.0320.C5.o2.gs  
 Start 1577  
 GI none  
 Exons 1577..2793

Seq. ID OJ000251\_43.0320.C5  
 Strand -  
 End 2811  
 Method GENSCAN  
 End 2793  
 Score .85

Seq. No. 45196  
 Gene No. 95519  
 Start 1577  
 Name OJ000251\_43.0320.C5.o1.ts  
 Start 2042  
 GI none  
 Exons 2042..2221, 2046..2168, 2297..2413, 2300..2380, 2435..2794, 2436..2579, 2436..2795, 2438..2665, 2560..2679, 2640..2801

Seq. ID OJ000251\_43.0320.C5  
 Strand -  
 End 2811  
 Method TBLASTX:Soybean  
 End 2801  
 Score 103

Seq. No. 45196  
 Gene No. 95519  
 Start 1577  
 Name OJ000251\_43.0320.C5.o2.tm  
 Start 2556  
 GI none

Seq. ID OJ000251\_43.0320.C5  
 Strand -  
 End 2811  
 Method TBLASTX:Maize  
 End 2744  
 Score 210

Exons 2556..2744, 2558..2743

Seq. No.	45197	Seq. ID	OJ000251_43.0320.C6
Gene No.	95520	Strand	+
Start	5203	End	11776
Name	OJ000251_43.0320.C6.o3.gs	Method	GENSCAN
Start	5203	End	11553
GI	none	Score	.61
Exons	5203..5292, 5416..5516, 5685..5965, 6728..6789, 7475..7644, 8345..8368, 8458..8582, 9470..9551, 9702..9824, 9922..9975, 10052..10121, 10659..10692, 11207..11553		

Seq. No.	45197	Seq. ID	OJ000251_43.0320.C6
Gene No.	95520	Strand	+
Start	5203	End	11776
Name	OJ000251_43.0320.C6.o1.gp	Method	AAT/GAP
Start	7564	End	8157
GI	3763745	Score	461
Exons	7564..7644, 7774..7825, 7908..8025, 8119..8157		

Seq. No.	45197	Seq. ID	OJ000251_43.0320.C6
Gene No.	95520	Strand	+
Start	5203	End	11776
Name	OJ000251_43.0320.C6.o2.gp	Method	AAT/GAP
Start	8536	End	9975
GI	LIB3432-007-P1-K1-G4	Score	476
Exons	8536..8582, 9470..9551, 9702..9824, 9922..9975		
GI Descrip.	'629838/pir  S43326 2.0e-09 tubulin beta-4 chain - maize >gi_416145 (L10635) beta-4 tubulin [Zea mays]'		

Seq. No.	45197	Seq. ID	OJ000251_43.0320.C6
Gene No.	95520	Strand	+
Start	5203	End	11776
Name	OJ000251_43.0320.C6.o3.gp	Method	AAT/GAP
Start	11332	End	11776
GI	3763746	Score	796
Exons	11332..11776		

Seq. No.	45197	Seq. ID	OJ000251_43.0320.C6
Gene No.	95521	Strand	-
Start	1176	End	5894
Name	OJ000251_43.0320.C6.o1.np	Method	AAT/NAP
Start	408	End	5894
GI	6523547	Score	101
Exons	408..461, 1382..1465, 1544..1734, 1898..2206, 5770..5894		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	45197	Seq. ID	OJ000251_43.0320.C6
Gene No.	95521	Strand	-
Start	1176	End	5894
Name	OJ000251_43.0320.C6.o1.gs	Method	GENSCAN
Start	1176	End	1661
GI	none	Score	.83
Exons	1176..1279, 1427..1661		

Seq. No.	45197	Seq. ID	OJ000251_43.0320.C6
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Gene No.	95521	Strand	-
Start	1176	End	5894
Name	OJ000251_43.0320.C6.o2.gs	Method	GENSCAN
Start	1817	End	4233
GI	none	Score	.98
Exons	1817..2238, 4125..4233		

Seq. No.	45197	Seq. ID	OJ000251_43.0320.C6
Gene No.	95522	Strand	-
Start	12450	End	13255
Name	OJ000251_43.0320.C6.o4.tm	Method	TBLASTX:Maize
Start	5815	End	6924
GI	none	Score	41
Exons	5815..5967, 5828..5863, 5830..5967, 5835..5969, 5847..5975, 6729..6788, 6730..6789, 6851..6922, 6852..6920, 6853..6924, 6853..6924		

Seq. No.	45197	Seq. ID	OJ000251_43.0320.C6
Gene No.	95522	Strand	-
Start	12450	End	13255
Name	OJ000251_43.0320.C6.o1.ts	Method	TBLASTX:Soybean
Start	5830	End	7157
GI	none	Score	48
Exons	5830..5874, 5838..5870, 5880..5960, 5881..5964, 6730..6789, 6732..6788, 6851..6934, 6853..6921, 7037..7108, 7038..7157		

Seq. No.	45197	Seq. ID	OJ000251_43.0320.C6
Gene No.	95522	Strand	-
Start	12450	End	13255
Name	OJ000251_43.0320.C6.o3.tm	Method	TBLASTX:Maize
Start	7107	End	8037
GI	none	Score	98
Exons	7107..7163, 7369..7419, 7537..7644, 7538..7645, 7774..7815, 7775..7825, 7775..7825, 7905..8024, 7906..8037, 7907..8014		

Seq. No.	45197	Seq. ID	OJ000251_43.0320.C6
Gene No.	95522	Strand	-
Start	12450	End	13255
Name	OJ000251_43.0320.C6.o2.tc	Method	TBLASTX:Cress
Start	7558	End	8584
GI	none	Score	101
Exons	7558..7644, 7559..7645, 7775..7825, 7781..7825, 7905..8024, 7910..8023, 7983..8048, 8118..8153, 8338..8367, 8345..8368, 8347..8370, 8442..8564, 8455..8583, 8456..8584		

Seq. No.	45197	Seq. ID	OJ000251_43.0320.C6
Gene No.	95522	Strand	-
Start	12450	End	13255
Name	OJ000251_43.0320.C6.o2.tm	Method	TBLASTX:Maize
Start	8101	End	11287
GI	none	Score	97
Exons	8101..8175, 8108..8164, 8115..8165, 8293..8370, 8342..8371, 8455..8583, 8456..8584, 9429..9551, 9468..9536, 9688..9825, 9693..9824, 9699..9827, 9920..9970, 9922..9975, 10049..10114, 10050..10124, 11211..11285, 11212..11286, 11234..11287		

Seq. No.	45197	Seq. ID	OJ000251_43.0320.C6
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Gene No.	95522	Strand	-
Start	12450	End	13255
Name	OJ000251_43.0320.C6.o1.tw	Method	TBLASTX:Wheat
Start	8521	End	9956
GI	none	Score	73
Exons	8521..8583, 8533..8586, 8535..8585, 9468..9536, 9470..9550, 9693..9815, 9700..9813, 9703..9822, 9921..9956, 9923..9955		

Seq. No.	45197	Seq. ID	OJ000251_43.0320.C6
Gene No.	95522	Strand	-
Start	12450	End	13255
Name	OJ000251_43.0320.C6.o1.tc	Method	TBLASTX:Cress
Start	9693	End	10124
GI	none	Score	192
Exons	9693..9824, 9700..9825, 9701..9832, 9920..9973, 9922..9972, 10053..10124		

Seq. No.	45197	Seq. ID	OJ000251_43.0320.C6
Gene No.	95522	Strand	-
Start	12450	End	13255
Name	OJ000251_43.0320.C6.o4.gp	Method	AAT/GAP
Start	12113	End	13245
GI	2939_1.R1084	Score	1224
Exons	12113..12531, 12622..12693, 12776..12855, 12932..12994, 13220..13245		
GI Descrip.	'3786409 9.0e-09 (AF098499) contains similarity to Saccharomyces cerevisiae MAF1 protein (GB:U19492) [Caenorhabditis elegans]'		

Seq. No.	45197	Seq. ID	OJ000251_43.0320.C6
Gene No.	95522	Strand	-
Start	12450	End	13255
Name	OJ000251_43.0320.C6.o1.tm	Method	TBLASTX:Maize
Start	12434	End	13002
GI	none	Score	106
Exons	12434..12532, 12436..12531, 12438..12533, 12627..12692, 12636..12692, 12775..12858, 12775..12855, 12780..12863, 12929..12997, 12930..12995, 12931..13002		

Seq. No.	45197	Seq. ID	OJ000251_43.0320.C6
Gene No.	95522	Strand	-
Start	12450	End	13255
Name	OJ000251_43.0320.C6.o4.gs	Method	GENSCAN
Start	12450	End	13252
GI	none	Score	.89
Exons	12450..12531, 12622..12693, 12776..12855, 12860..12994, 13220..13252		

Seq. No.	45197	Seq. ID	OJ000251_43.0320.C6
Gene No.	95522	Strand	-
Start	12450	End	13255
Name	OJ000251_43.0320.C6.o2.np	Method	AAT/NAP
Start	12453	End	13255
GI	7529279	Score	183
Exons	12453..12531, 12622..12693, 12776..12855, 12932..12994, 13220..13255		
GI Descrip.	(AL163491) putative protein [Arabidopsis thaliana]		



Seq. No.	45198	Seq. ID	OJ000251_43.0320.C7
Gene No.	95523	Strand	-
Start	1	End	2855
Name	OJ000251_43.0320.C7.o1.np	Method	AAT/NAP
Start	1	End	2217
GI	7529279	Score	246
Exons	1..123, 349..436, 789..851, 933..1006, 1195..1244, 1328..1398, 1501..1592, 2097..2217		

GI Descrip. (AL163491) putative protein [Arabidopsis thaliana]

Seq. No.	45198	Seq. ID	OJ000251_43.0320.C7
Gene No.	95523	Strand	-
Start	1	End	2855
Name	OJ000251_43.0320.C7.o1.gs	Method	GENSCAN
Start	349	End	2807
GI	none	Score	.89
Exons	349..436, 789..851, 933..1006, 1195..1244, 2638..2807		

Seq. No.	45198	Seq. ID	OJ000251_43.0320.C7
Gene No.	95523	Strand	-
Start	1	End	2855
Name	OJ000251_43.0320.C7.o1.tm	Method	TBLASTX:Maize
Start	797	End	1574
GI	none	Score	82
Exons	797..865, 798..857, 798..887, 933..1007, 949..1008, 1192..1251, 1196..1243, 1317..1400, 1318..1407, 1320..1400, 1328..1402, 1342..1407, 1466..1558, 1491..1574, 1501..1557, 1503..1571		

Seq. No.	45198	Seq. ID	OJ000251_43.0320.C7
Gene No.	95523	Strand	-
Start	1	End	2855
Name	OJ000251_43.0320.C7.o2.gp	Method	AAT/GAP
Start	929	End	2855
GI	none	Score	898
Exons	929..1006, 1195..1244, 1328..1398, 1501..1607, 2638..2855		

Seq. No.	45199	Seq. ID	OJ000251_43.0320.C10
Gene No.	95524	Strand	+
Start	530	End	8297
Name	OJ000251_43.0320.C10.o1.gs	Method	GENSCAN
Start	530	End	8297
GI	none	Score	.81
Exons	530..616, 821..1015, 1248..1683, 1739..1895, 2068..2163, 3068..3163, 3475..3658, 5127..5840, 5927..6097, 6534..6590, 6675..8297		

Seq. No.	45199	Seq. ID	OJ000251_43.0320.C10
Gene No.	95524	Strand	+
Start	530	End	8297
Name	OJ000251_43.0320.C10.o1.np	Method	AAT/NAP
Start	3533	End	7323
GI	475784	Score	135
Exons	3533..3588, 5400..5706, 7273..7323		
GI Descrip.	(M99575) 85 kDa protein [Babesia bovis]		

Seq. No.	45199	Seq. ID	OJ000251_43.0320.C10
Gene No.	95524	Strand	+

Start	530	End	8297
Name	OJ000251_43.0320.C10.o2.gp	Method	AAT/GAP
Start	5295	End	5696
GI	64866_1.R1084	Score	712
Exons	5295..5696		
GI Descrip.	'475784 2.0e-13 (M99575) 85 kDa protein [Babesia bovis]'		

Seq. No.	45199	Seq. ID	OJ000251_43.0320.C10
Gene No.	95524	Strand	+
Start	530	End	8297
Name	OJ000251_43.0320.C10.o2.np	Method	AAT/NAP
Start	5950	End	6770
GI	7262680	Score	87
Exons	5950..6150, 6634..6770		
GI Descrip.	(AC012188) Strong similarity to an unknown protein from Arabidopsis thaliana gb AC002521.2 and contains IQ calmodulin-binding PF 00612 motifs. ESTs gb AA395022, gb T41893 come from this gene		

Seq. No.	45199	Seq. ID	OJ000251_43.0320.C10
Gene No.	95524	Strand	+
Start	530	End	8297
Name	OJ000251_43.0320.C10.o3.gp	Method	AAT/GAP
Start	7190	End	8077
GI	none	Score	1662
Exons	7190..8077		

Seq. No.	45199	Seq. ID	OJ000251_43.0320.C10
Gene No.	95525	Strand	+
Start	8941	End	9208
Name	OJ000251_43.0320.C10.o5.gp	Method	AAT/GAP
Start	8941	End	9129
GI	1632034	Score	296
Exons	8941..9129		

Seq. No.	45199	Seq. ID	OJ000251_43.0320.C10
Gene No.	95525	Strand	+
Start	8941	End	9208
Name	OJ000251_43.0320.C10.o6.gp	Method	AAT/GAP
Start	8942	End	9208
GI	none	Score	375
Exons	8942..9208		

Seq. No.	45199	Seq. ID	OJ000251_43.0320.C10
Gene No.	95526	Strand	+
Start	12032	End	12456
Name	OJ000251_43.0320.C10.o7.gp	Method	AAT/GAP
Start	12032	End	12456
GI	none	Score	819
Exons	12032..12456		

Seq. No.	45199	Seq. ID	OJ000251_43.0320.C10
Gene No.	95527	Strand	-
Start	5125	End	5239
Name	OJ000251_43.0320.C10.o1.gp	Method	AAT/GAP
Start	5125	End	5239
GI	none	Score	197

Exons 5125..5239

Seq. No.	45199	Seq. ID	OJ000251_43.0320.C10
Gene No.	95528	Strand	-
Start	7525	End	13734
Name	OJ000251_43.0320.C10.o1.tm	Method	TBLASTX:Maize
Start	1822	End	7785
GI	none	Score	85
Exons	1822..1899, 6928..7023, 6942..7133, 7080..7334, 7130..7333, 7319..7399, 7335..7400, 7398..7625, 7398..7616, 7405..7785, 7719..7784		

Seq. No.	45199	Seq. ID	OJ000251_43.0320.C10
Gene No.	95528	Strand	-
Start	7525	End	13734
Name	OJ000251_43.0320.C10.o1.tw	Method	TBLASTX:Wheat
Start	5127	End	5705
GI	none	Score	137
Exons	5127..5264, 5130..5264, 5131..5268, 5236..5358, 5258..5389, 5258..5389, 5259..5390, 5325..5420, 5333..5419, 5349..5447, 5354..5434, 5382..5621, 5395..5565, 5433..5615, 5445..5633, 5467..5550, 5481..5645, 5481..5645, 5523..5663, 5523..5663, 5547..5705		

Seq. No.	45199	Seq. ID	OJ000251_43.0320.C10
Gene No.	95528	Strand	-
Start	7525	End	13734
Name	OJ000251_43.0320.C10.o4.tm	Method	TBLASTX:Maize
Start	5676	End	6750
GI	none	Score	115
Exons	5676..5819, 5677..5799, 5933..6100, 5952..6146, 5971..6111, 6554..6607, 6557..6589, 6558..6608, 6672..6746, 6673..6750, 6673..6750		

Seq. No.	45199	Seq. ID	OJ000251_43.0320.C10
Gene No.	95528	Strand	-
Start	7525	End	13734
Name	OJ000251_43.0320.C10.o3.np	Method	AAT/NAP
Start	7525	End	13723
GI	6562270	Score	137
Exons	7525..7680, 12767..12913, 12944..13218, 13304..13431, 13514..13723		

GI Descrip. (AL132980) hypothetical protein [Arabidopsis thaliana]

Seq. No.	45199	Seq. ID	OJ000251_43.0320.C10
Gene No.	95528	Strand	-
Start	7525	End	13734
Name	OJ000251_43.0320.C10.o2.tm	Method	TBLASTX:Maize
Start	7790	End	9277
GI	none	Score	272
Exons	7790..7846, 7791..8012, 7792..8013, 7793..8014, 7992..8057, 8014..8058, 8018..8059, 8040..8096, 8044..8106, 8045..8146, 8049..8108, 8115..8270, 8120..8269, 8937..8960, 8939..8974, 9051..9080, 9052..9084, 9076..9111, 9084..9113, 9106..9177, 9139..9165, 9194..9223, 9198..9242, 9233..9277		

Seq. No.	45199	Seq. ID	OJ000251_43.0320.C10
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Gene No.	95528	Strand	-
Start	7525	End	13734
Name	OJ000251_43.0320.C10.o4.gp	Method	AAT/GAP
Start	8078	End	8297
GI	none	Score	316
Exons	8078..8297		
Seq. No.	45199	Seq. ID	OJ000251_43.0320.C10
Gene No.	95528	Strand	-
Start	7525	End	13734
Name	OJ000251_43.0320.C10.o5.tm	Method	TBLASTX:Maize
Start	12063	End	12647
GI	none	Score	42
Exons	12063..12116, 12163..12204, 12164..12202, 12243..12401, 12277..12396, 12282..12401, 12396..12488, 12397..12477, 12401..12595, 12484..12597, 12489..12626, 12594..12647		
Seq. No.	45199	Seq. ID	OJ000251_43.0320.C10
Gene No.	95528	Strand	-
Start	7525	End	13734
Name	OJ000251_43.0320.C10.o2.gs	Method	GENSCAN
Start	12204	End	13723
GI	none	Score	.98
Exons	12204..13218, 13304..13428, 13514..13723		
Seq. No.	45199	Seq. ID	OJ000251_43.0320.C10
Gene No.	95528	Strand	-
Start	7525	End	13734
Name	OJ000251_43.0320.C10.o8.gp	Method	AAT/GAP
Start	12554	End	13003
GI	LIB3431-023-P1-K1-B10	Score	839
Exons	12554..13003		
GI Descrip.	'20153/emb X57919 OS12RG14R 8.0e-83 O.sativa random single-copy DNA fragment 12RG143R'		
Seq. No.	45199	Seq. ID	OJ000251_43.0320.C10
Gene No.	95528	Strand	-
Start	7525	End	13734
Name	OJ000251_43.0320.C10.o3.tm	Method	TBLASTX:Maize
Start	13345	End	13734
GI	none	Score	63
Exons	13345..13410, 13348..13431, 13511..13732, 13518..13724, 13522..13734		
Seq. No.	45199	Seq. ID	OJ000251_43.0320.C10
Gene No.	95528	Strand	-
Start	7525	End	13734
Name	OJ000251_43.0320.C10.o1.ts	Method	TBLASTX:Soybean
Start	13517	End	13734
GI	none	Score	137
Exons	13517..13732, 13518..13733, 13528..13734		
Seq. No.	45200	Seq. ID	OJ000251_43.0320.C12
Gene No.	95528	Strand	-
Start	647	End	1004
Name	OJ000251_43.0320.C12.o1.tm	Method	TBLASTX:Maize
Start	578	End	1004

GI	none	Score	548
Exons	578..997, 600..1004, 630..998		
Seq. No.	45200	Seq. ID	OJ000251_43.0320.C12
Gene No.	95529	Strand	-
Start	647	End	1004
Name	OJ000251_43.0320.C12.o1.tc	Method	TBLASTX:Cress
Start	630	End	958
GI	none	Score	287
Exons	630..866, 647..865, 808..867, 853..936, 863..958, 864..938		

Seq. No.	45200	Seq. ID	OJ000251_43.0320.C12
Gene No.	95529	Strand	-
Start	647	End	1004
Name	OJ000251_43.0320.C12.o1.gs	Method	GENSCAN
Start	647	End	979
GI	none	Score	.77
Exons	647..979		

Seq. No.	45200	Seq. ID	OJ000251_43.0320.C12
Gene No.	95529	Strand	-
Start	647	End	1004
Name	OJ000251_43.0320.C12.o1.np	Method	AAT/NAP
Start	650	End	979
GI	7486045	Score	624
Exons	650..979		
GI Descrip.	hypothetical protein F23F1.8 - Arabidopsis thaliana gi 3420051 gb AAC31852.1  (AC004680) unknown protein [Arabidopsis thaliana]		

Seq. No.	45200	Seq. ID	OJ000251_43.0320.C12
Gene No.	95529	Strand	-
Start	647	End	1004
Name	OJ000251_43.0320.C12.o1.ts	Method	TBLASTX:Soybean
Start	695	End	1001
GI	none	Score	375
Exons	695..979, 696..980, 714..1001, 814..981		

Seq. No.	45201	Seq. ID	OJ000251_43.0320.C14
Gene No.	95530	Strand	+
Start	632	End	681
Name	OJ000251_43.0320.C14.o1.gs	Method	GENSCAN
Start	632	End	681
GI	none	Score	.72
Exons	632..681		

Seq. No.	45202	Seq. ID	OJ000251_43.0320.C17
Gene No.	95531	Strand	-
Start	514	End	603
Name	OJ000251_43.0320.C17.o1.tm	Method	TBLASTX:Maize
Start	39	End	306
GI	none	Score	45
Exons	39..305, 145..174, 199..306		

Seq. No.	45202	Seq. ID	OJ000251_43.0320.C17
Gene No.	95531	Strand	-
Start	514	End	603

Name	OJ000251_43.0320.C17.o1.tw	Method	TBLASTX:Wheat
Start	195	End	491
GI	none	Score	95
Exons	195..485, 195..491, 196..486		
Seq. No.	45202	Seq. ID	OJ000251_43.0320.C17
Gene No.	95531	Strand	-
Start	514	End	603
Name	OJ000251_43.0320.C17.o1.gs	Method	GENSCAN
Start	514	End	603
GI	none	Score	.49
Exons	514..603		
Seq. No.	45203	Seq. ID	OJ000251_43.0320.C18
Gene No.	95532	Strand	-
Start	152	End	689
Name	OJ000251_43.0320.C18.o1.gs	Method	GENSCAN
Start	152	End	689
GI	none	Score	.66
Exons	152..215, 642..689		
Seq. No.	45204	Seq. ID	OJ000251_43.0320.C19
Gene No.	95533	Strand	+
Start	1119	End	1295
Name	OJ000251_43.0320.C19.o1.gs	Method	GENSCAN
Start	1119	End	1295
GI	none	Score	.79
Exons	1119..1295		
Seq. No.	45205	Seq. ID	OJ000251_43.0320.C20
Gene No.	95534	Strand	+
Start	1167	End	1723
Name	OJ000251_43.0320.C20.o1.gs	Method	GENSCAN
Start	1167	End	1723
GI	none	Score	.81
Exons	1167..1293, 1562..1723		
Seq. No.	45205	Seq. ID	OJ000251_43.0320.C20
Gene No.	95534	Strand	+
Start	1167	End	1723
Name	OJ000251_43.0320.C20.o1.np	Method	AAT/NAP
Start	1190	End	1720
GI	4531440	Score	120
Exons	1190..1453, 1518..1720		
GI Descrip.	(AC006224) unknown protein [Arabidopsis thaliana]		
Seq. No.	45205	Seq. ID	OJ000251_43.0320.C20
Gene No.	95535	Strand	+
Start	1748	End	2116
Name	OJ000251_43.0320.C20.o1.gp	Method	AAT/GAP
Start	1748	End	2116
GI	699981	Score	714
Exons	1748..2116		
Seq. No.	45206	Seq. ID	OJ000251_43.0320.C21
Gene No.	95536	Strand	+
Start	137	End	5893

Name	OJ000251_43.0320.C21.ol.gs	Method	GENSCAN
Start	137	End	5893
GI	none	Score	.61
Exons	137..168, 5514..5893		

Seq. No.	45206	Seq. ID	OJ000251_43.0320.C21
Gene No.	95537	Strand	-
Start	6317	End	6702
Name	OJ000251_43.0320.C21.ol.np	Method	AAT/NAP
Start	6317	End	6702
GI	6069646	Score	340
Exons	6317..6702		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	45207	Seq. ID	OJ000251_43.0320.C22
Gene No.	95538	Strand	-
Start	1736	End	2890
Name	OJ000251_43.0320.C22.ol.gp	Method	AAT/GAP
Start	1581	End	2091
GI	LIB3432-030-P1-K1-F9	Score	593
Exons	1581..1809, 1999..2091		
GI Descrip.	'3941543' 2.0e-15 (AF069497) pelota [Arabidopsis thaliana] >gi_4469016_emb_CAB38277_ (AL035602) pelota (PEL1) [Arabidopsis thaliana]'		

Seq. No.	45207	Seq. ID	OJ000251_43.0320.C22
Gene No.	95538	Strand	-
Start	1736	End	2890
Name	OJ000251_43.0320.C22.ol.gs	Method	GENSCAN
Start	1736	End	2418
GI	none	Score	.87
Exons	1736..1809, 1999..2105, 2324..2418		

Seq. No.	45207	Seq. ID	OJ000251_43.0320.C22
Gene No.	95538	Strand	-
Start	1736	End	2890
Name	OJ000251_43.0320.C22.ol.np	Method	AAT/NAP
Start	1739	End	2890
GI	7484844	Score	281
Exons	1739..1809, 1999..2105, 2324..2418, 2761..2890		
GI Descrip.	cell division protein pelota - Arabidopsis thaliana gi 3941543 gb AAC82379.1  (AF069497) pelota [Arabidopsis thaliana] gi 4469016 emb CAB38277.1  (AL035602) pelota (PEL1) [Arabidopsis thaliana] gi 7269619 emb CAB81415.1  (AL161571) pelota (PEL1) [Arabidopsis thaliana]		

Seq. No.	45208	Seq. ID	OJ000251_43.0320.C26
Gene No.	95539	Strand	-
Start	1	End	815
Name	OJ000251_43.0320.C26.ol.np	Method	AAT/NAP
Start	1	End	815
GI	6554202	Score	81
Exons	1..63, 705..815		

GI Descrip. (AC011661) T23J18.5 [Arabidopsis thaliana]

Seq. No.	45209	Seq. ID	OJ000251_43.0320.C27
Gene No.	95540	Strand	+
Start	1	End	957
Name	OJ000251_43.0320.C27.o1.np	Method	AAT/NAP
Start	1	End	957
GI	6919944	Score	206
Exons	1..22, 620..716, 805..957		
GI Descrip.	PROBABLE 26S PROTEASOME REGULATORY SUBUNIT S12 (MOV34 PROTEIN) gi 2351374 (U54560) putative 26S proteasome subunit athMOV34 [Arabidopsis thaliana]		

Seq. No.	45209	Seq. ID	OJ000251_43.0320.C27
Gene No.	95540	Strand	+
Start	1	End	957
Name	OJ000251_43.0320.C27.o1.tc	Method	TBLASTX:Cress
Start	616	End	885
GI	none	Score	164
Exons	616..711, 620..715, 621..716, 802..885, 804..881		

Seq. No.	45209	Seq. ID	OJ000251_43.0320.C27
Gene No.	95540	Strand	+
Start	1	End	957
Name	OJ000251_43.0320.C27.o1.tm	Method	TBLASTX:Maize
Start	617	End	885
GI	none	Score	168
Exons	617..715, 618..716, 619..762, 622..720, 802..885, 804..881		

Seq. No.	45209	Seq. ID	OJ000251_43.0320.C27
Gene No.	95540	Strand	+
Start	1	End	957
Name	OJ000251_43.0320.C27.o1.gp	Method	AAT/GAP
Start	620	End	884
GI	LIB3434-015-P1-K1-H9	Score	287
Exons	620..716, 805..884		
GI Descrip.	'2351374 4.0e-77 (U54560) putative 26S proteasome subunit athMOV34 [Arabidopsis thaliana]'		

Seq. No.	45209	Seq. ID	OJ000251_43.0320.C27
Gene No.	95540	Strand	+
Start	1	End	957
Name	OJ000251_43.0320.C27.o1.gs	Method	GENSCAN
Start	620	End	880
GI	none	Score	.64
Exons	620..716, 805..880		

Seq. No.	45209	Seq. ID	OJ000251_43.0320.C27
Gene No.	95540	Strand	+
Start	1	End	957
Name	OJ000251_43.0320.C27.o1.ts	Method	TBLASTX:Soybean
Start	641	End	885
GI	none	Score	122
Exons	641..715, 642..716, 800..877, 802..885, 804..881		

Seq. No.	45210	Seq. ID	OJ000251_43.0320.C28
Gene No.	95541	Strand	+



Start	1	End	5186
Name	OJ000251_43.0320.C28.o1.np	Method	AAT/NAP
Start	1	End	1729
GI	6919944	Score	695
Exons	1..106, 195..270, 481..539, 626..748, 1328..1385, 1486..1571, 1667..1729		
GI Descrip.	PROBABLE 26S PROTEASOME REGULATORY SUBUNIT S12 (MOV34 PROTEIN) gi 2351374 (U54560) putative 26S proteasome subunit athMOV34 [Arabidopsis thaliana]		

Seq. No.	45210	Seq. ID	OJ000251_43.0320.C28
Gene No.	95541	Strand	+
Start	1	End	5186
Name	OJ000251_43.0320.C28.o1.gs	Method	GENSCAN
Start	195	End	5186
GI	none	Score	.69
Exons	195..270, 481..539, 626..748, 1328..1385, 1486..1571, 2833..2886, 2933..3305, 3323..3390, 3494..3591, 4500..4633, 4990..5186		

Seq. No.	45210	Seq. ID	OJ000251_43.0320.C28
Gene No.	95541	Strand	+
Start	1	End	5186
Name	OJ000251_43.0320.C28.o2.np	Method	AAT/NAP
Start	1424	End	5033
GI	6358777	Score	101
Exons	1424..1475, 3332..3390, 3494..3591, 4977..5033		
GI Descrip.	(AC011665) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45210	Seq. ID	OJ000251_43.0320.C28
Gene No.	95541	Strand	+
Start	1	End	5186
Name	OJ000251_43.0320.C28.o1.gp	Method	AAT/GAP
Start	1494	End	2036
GI	27605_1.R1084	Score	836
Exons	1494..1571, 1667..2036		
GI Descrip.	'2351374 6.0e-17 (U54560) putative 26S proteasome subunit athMOV34 [Arabidopsis thaliana]'		

Seq. No.	45210	Seq. ID	OJ000251_43.0320.C28
Gene No.	95541	Strand	+
Start	1	End	5186
Name	OJ000251_43.0320.C28.o5.gp	Method	AAT/GAP
Start	3480	End	4894
GI	4969101	Score	892
Exons	3480..3591, 4500..4894		

Seq. No.	45210	Seq. ID	OJ000251_43.0320.C28
Gene No.	95542	Strand	-
Start	2551	End	3207
Name	OJ000251_43.0320.C28.o4.gp	Method	AAT/GAP
Start	2551	End	3207
GI	5867_1.R1084	Score	163
Exons	2551..2642, 3185..3207		
GI Descrip.	'464986/sp P35132 UBC9_ARATH 5.0e-58 UBIQUITIN-CONJUGATING ENZYME E2-17 KD 9 (UBIQUITIN-PROTEIN LIGASE 9) (UBIQUITIN CARRIER PROTEIN 9) (UBCAT4B) >gi_421857_pir__S32674		

ubiquitin--protein ligase (EC 6.3.2.19) UBC9 - Arabidopsis thaliana >gi\_297884\_emb\_CAA78714\_ (Z14990) ubiquitin conjugating enzyme homolog [Arabidopsis thaliana] >gi\_349211 (L00639) ubiquitin conjugating enzyme [Arabidopsis]

Seq. No.	45210	Seq. ID	OJ000251_43.0320.C28
Gene No.	95543	Strand	-
Start	5445	End	11137
Name	OJ000251_43.0320.C28.o1.tc	Method	TBLASTX:Cress
Start	6	End	1729
GI	none	Score	164
Exons	6..101, 10..105, 11..106, 192..275, 194..271, 473..544, 477..542, 623..742, 625..804, 653..748, 1312..1380, 1325..1384, 1482..1574, 1484..1570, 1485..1571, 1664..1729, 1669..1719		

Seq. No.	45210	Seq. ID	OJ000251_43.0320.C28
Gene No.	95543	Strand	-
Start	5445	End	11137
Name	OJ000251_43.0320.C28.o3.tm	Method	TBLASTX:Maize
Start	7	End	1884
GI	none	Score	168
Exons	7..105, 8..106, 9..152, 12..110, 192..275, 194..271, 473..544, 477..542, 482..544, 621..749, 625..756, 653..748, 1312..1383, 1312..1383, 1325..1384, 1326..1391, 1466..1543, 1466..1570, 1479..1574, 1482..1574, 1636..1752, 1651..1746, 1664..1765, 1664..1765, 1780..1827, 1780..1827, 1790..1846, 1826..1882, 1827..1883, 1846..1884		

Seq. No.	45210	Seq. ID	OJ000251_43.0320.C28
Gene No.	95543	Strand	-
Start	5445	End	11137
Name	OJ000251_43.0320.C28.o2.ts	Method	TBLASTX:Soybean
Start	31	End	1729
GI	none	Score	122
Exons	31..105, 32..106, 190..267, 192..275, 194..271, 473..544, 477..542, 623..748, 625..750, 653..748, 1312..1395, 1325..1384, 1481..1570, 1482..1574, 1482..1574, 1651..1728, 1664..1729		

Seq. No.	45210	Seq. ID	OJ000251_43.0320.C28
Gene No.	95543	Strand	-
Start	5445	End	11137
Name	OJ000251_43.0320.C28.o2.tw	Method	TBLASTX:Wheat
Start	77	End	1541
GI	none	Score	50
Exons	77..106, 77..106, 190..270, 192..275, 194..271, 473..544, 477..542, 623..748, 625..780, 653..748, 1325..1384, 1325..1384, 1326..1385, 1326..1391, 1479..1541, 1482..1541		

Seq. No.	45210	Seq. ID	OJ000251_43.0320.C28
Gene No.	95543	Strand	-
Start	5445	End	11137
Name	OJ000251_43.0320.C28.o2.tm	Method	TBLASTX:Maize
Start	3137	End	4667
GI	none	Score	149
Exons	3137..3238, 3154..3231, 3327..3392, 3331..3390, 3335..3403, 3488..3589, 3491..3583, 3493..3594, 3493..3597, 4489..4650, 4491..4667, 4491..4652		

Seq. No.	45210	Seq. ID	OJ000251_43.0320.C28
Gene No.	95543	Strand	-
Start	5445	End	11137
Name	OJ000251_43.0320.C28.o1.tm	Method	TBLASTX:Maize
Start	5415	End	6024
GI	none	Score	253
Exons	5415..5684, 5427..5681, 5428..5682, 5482..5688, 5964..6023, 5965..6024		

Seq. No.	45210	Seq. ID	OJ000251_43.0320.C28
Gene No.	95543	Strand	-
Start	5445	End	11137
Name	OJ000251_43.0320.C28.o1.tw	Method	TBLASTX:Wheat
Start	5426	End	6790
GI	none	Score	257
Exons	5426..5677, 5439..5684, 5440..5679, 5452..5688, 5965..6039, 5970..6041, 5989..6039, 6674..6781, 6684..6788, 6686..6790		

Seq. No.	45210	Seq. ID	OJ000251_43.0320.C28
Gene No.	95543	Strand	-
Start	5445	End	11137
Name	OJ000251_43.0320.C28.o2.gs	Method	GENSCAN
Start	5445	End	11137
GI	none	Score	.7
Exons	5445..5676, 6687..6794, 6881..7087, 7172..7275, 8512..8644, 8932..9058, 9650..9741, 10710..11137		

Seq. No.	45210	Seq. ID	OJ000251_43.0320.C28
Gene No.	95543	Strand	-
Start	5445	End	11137
Name	OJ000251_43.0320.C28.o3.np	Method	AAT/NAP
Start	5448	End	7082
GI	7023341	Score	417
Exons	5448..5676, 5966..6040, 6687..6794, 6946..7082		
GI Descrip.	(AK001830) unnamed protein product [Homo sapiens]		

Seq. No.	45210	Seq. ID	OJ000251_43.0320.C28
Gene No.	95543	Strand	-
Start	5445	End	11137
Name	OJ000251_43.0320.C28.o1.ts	Method	TBLASTX:Soybean
Start	5451	End	7079
GI	none	Score	128
Exons	5451..5678, 5451..5693, 5452..5682, 5989..6039, 6686..6796, 6687..6794, 6942..7079		

Seq. No.	45210	Seq. ID	OJ000251_43.0320.C28
Gene No.	95543	Strand	-
Start	5445	End	11137
Name	OJ000251_43.0320.C28.o4.tm	Method	TBLASTX:Maize
Start	6684	End	7086
GI	none	Score	137
Exons	6684..6794, 6685..6795, 6686..6796, 6942..7082, 6982..7086, 7012..7086		

Seq. No.	45210	Seq. ID	OJ000251_43.0320.C28
Gene No.	95543	Strand	-

Start	5445	End	11137
Name	OJ000251_43.0320.C28.o4.np	Method	AAT/NAP
Start	10712	End	11137
GI	7487665	Score	218
Exons	10712..11137		
GI Descrip.	hypothetical protein T4L20.330 - Arabidopsis thaliana gi 3096944 emb CAA18854.1  (AL023094) putative protein [Arabidopsis thaliana] gi 7270426 emb CAB80192.1  (AL161586) putative protein [Arabidopsis thaliana]		

Seq. No.	45210	Seq. ID	OJ000251_43.0320.C28
Gene No.	95543	Strand	-
Start	5445	End	11137
Name	OJ000251_43.0320.C28.o3.ts	Method	TBLASTX:Soybean
Start	10791	End	11126
GI	none	Score	81
Exons	10791..10898, 10793..10897, 10916..11017, 10917..11018, 11088..11126		

Seq. No.	45211	Seq. ID	OJ000251_43.0320.C30
Gene No.	95544	Strand	+
Start	759	End	1870
Name	OJ000251_43.0320.C30.o1.gs	Method	GENSCAN
Start	759	End	1870
GI	none	Score	.68
Exons	759..806, 1267..1403, 1840..1870		

Seq. No.	45211	Seq. ID	OJ000251_43.0320.C30
Gene No.	95545	Strand	-
Start	3341	End	4675
Name	OJ000251_43.0320.C30.o2.gs	Method	GENSCAN
Start	3341	End	4675
GI	none	Score	.69
Exons	3341..3466, 3928..4098, 4414..4490, 4606..4675		

Seq. No.	45212	Seq. ID	OJ000251_43.0320.C35
Gene No.	95546	Strand	-
Start	15	End	974
Name	OJ000251_43.0320.C35.o1.np	Method	AAT/NAP
Start	15	End	817
GI	7269940	Score	164
Exons	15..182, 701..817		
GI Descrip.	(AL161577) putative protein [Arabidopsis thaliana]		

Seq. No.	45212	Seq. ID	OJ000251_43.0320.C35
Gene No.	95546	Strand	-
Start	15	End	974
Name	OJ000251_43.0320.C35.o1.gp	Method	AAT/GAP
Start	72	End	974
GI	215_1.R1084	Score	699
Exons	72..182, 701..974		
GI Descrip.	'4158219 emb CAA77234  0.0e+00 (Y18623) amylogenin [Oryza sativa]'		

Seq. No.	45213	Seq. ID	OJ000251_43.0320.C36
Gene No.	95547	Strand	+
Start	737	End	5759

Name	OJ000251_43.0320.C36.o1.gs	Method	GENSCAN
Start	737	End	5759
GI	none	Score	.97
Exons	737..778, 927..2423, 3102..3371, 4354..4509, 5640..5759		
Seq. No.	45213	Seq. ID	OJ000251_43.0320.C36
Gene No.	95547	Strand	+
Start	737	End	5759
Name	OJ000251_43.0320.C36.o1.np	Method	AAT/NAP
Start	1677	End	5756
GI	6554202	Score	1694
Exons	1677..2423, 3102..3371, 4354..4509, 5640..5756		
GI Descrip.	(AC011661) T23J18.5 [Arabidopsis thaliana]		
Seq. No.	45213	Seq. ID	OJ000251_43.0320.C36
Gene No.	95547	Strand	+
Start	737	End	5759
Name	OJ000251_43.0320.C36.o1.gp	Method	AAT/GAP
Start	2237	End	4386
GI	uC-osflcyp121b09b1	Score	928
Exons	2237..2423, 3102..3371, 4354..4386		
GI Descrip.	'4585871/gb AAD25544.1 AC005850_1 1.0e-67 (AC005850) Unknown protein [Arabidopsis thaliana]'		
Seq. No.	45213	Seq. ID	OJ000251_43.0320.C36
Gene No.	95548	Strand	+
Start	6264	End	8181
Name	OJ000251_43.0320.C36.o2.gs	Method	GENSCAN
Start	6264	End	8181
GI	none	Score	.98
Exons	6264..6273, 6937..7115, 7385..7494, 8046..8181		
Seq. No.	45213	Seq. ID	OJ000251_43.0320.C36
Gene No.	95549	Strand	+
Start	8981	End	9870
Name	OJ000251_43.0320.C36.o4.tm	Method	TBLASTX:Maize
Start	1421	End	1637
GI	none	Score	175
Exons	1421..1555, 1422..1556, 1568..1636, 1568..1636, 1569..1637		
Seq. No.	45213	Seq. ID	OJ000251_43.0320.C36
Gene No.	95549	Strand	+
Start	8981	End	9870
Name	OJ000251_43.0320.C36.o3.ts	Method	TBLASTX:Soybean
Start	1611	End	1845
GI	none	Score	266
Exons	1611..1841, 1645..1845, 1645..1833, 1646..1834		
Seq. No.	45213	Seq. ID	OJ000251_43.0320.C36
Gene No.	95549	Strand	+
Start	8981	End	9870
Name	OJ000251_43.0320.C36.o1.tm	Method	TBLASTX:Maize
Start	1638	End	1937
GI	none	Score	495
Exons	1638..1937, 1640..1906, 1641..1937		
Seq. No.	45213	Seq. ID	OJ000251_43.0320.C36

Gene No.	95549	Strand	+
Start	8981	End	9870
Name	OJ000251_43.0320.C36.o1.tc	Method	TBLASTX:Cress
Start	1700	End	1934
GI	none	Score	57
Exons	1700..1780, 1701..1850, 1712..1780, 1782..1904, 1784..1900, 1881..1934		

Seq. No.	45213	Seq. ID	OJ000251_43.0320.C36
Gene No.	95549	Strand	+
Start	8981	End	9870
Name	OJ000251_43.0320.C36.o1.ts	Method	TBLASTX:Soybean
Start	2088	End	2423
GI	none	Score	482
Exons	2088..2423, 2099..2422, 2127..2423		

Seq. No.	45213	Seq. ID	OJ000251_43.0320.C36
Gene No.	95549	Strand	+
Start	8981	End	9870
Name	OJ000251_43.0320.C36.o2.tm	Method	TBLASTX:Maize
Start	2184	End	3164
GI	none	Score	97
Exons	2184..2243, 2186..2281, 2187..2243, 2244..2426, 2245..2424, 2246..2425, 3087..3164, 3101..3163, 3102..3164		

Seq. No.	45213	Seq. ID	OJ000251_43.0320.C36
Gene No.	95549	Strand	+
Start	8981	End	9870
Name	OJ000251_43.0320.C36.o2.ts	Method	TBLASTX:Soybean
Start	3087	End	5969
GI	none	Score	106
Exons	3087..3170, 3101..3154, 3156..3371, 3164..3376, 3188..3376, 4351..4509, 4353..4508, 5627..5755, 5631..5756, 5638..5760, 5639..5761, 5847..5969		

Seq. No.	45213	Seq. ID	OJ000251_43.0320.C36
Gene No.	95549	Strand	+
Start	8981	End	9870
Name	OJ000251_43.0320.C36.o3.tm	Method	TBLASTX:Maize
Start	4351	End	5762
GI	none	Score	266
Exons	4351..4509, 4353..4508, 4467..4514, 5631..5762, 5633..5761		

Seq. No.	45213	Seq. ID	OJ000251_43.0320.C36
Gene No.	95549	Strand	+
Start	8981	End	9870
Name	OJ000251_43.0320.C36.o3.gs	Method	GENSCAN
Start	8981	End	9870
GI	none	Score	.79
Exons	8981..9170, 9297..9386, 9488..9609, 9681..9870		

Seq. No.	45214	Seq. ID	OJ000251_43.0320.C37
Gene No.	95550	Strand	-
Start	307	End	1055
Name	OJ000251_43.0320.C37.o1.gs	Method	GENSCAN
Start	307	End	1055
GI	none	Score	.52

Exons 307..500, 986..1055

Seq. No.	45215	Seq. ID	OJ000251_43.0320.C41
Gene No.	95551	Strand	-
Start	205	End	412
Name	OJ000251_43.0320.C41.ol.gs	Method	GENSCAN
Start	205	End	412
GI	none	Score	.77
Exons	205..298, 359..412		

Seq. No.	45216	Seq. ID	OJ000251_43.0320.C48
Gene No.	95552	Strand	+
Start	1	End	1066
Name	OJ000251_43.0320.C48.ol.np	Method	AAT/NAP
Start	1	End	1066
GI	6175151	Score	155
Exons	1..90, 196..390, 729..797, 891..1066		
GI Descrip.	(AC010796) unknown protein [Arabidopsis thaliana]		

Seq. No.	45216	Seq. ID	OJ000251_43.0320.C48
Gene No.	95552	Strand	+
Start	1	End	1066
Name	OJ000251_43.0320.C48.ol.gs	Method	GENSCAN
Start	196	End	957
GI	none	Score	.96
Exons	196..390, 723..797, 891..957		

Seq. No.	45217	Seq. ID	OJ000251_43.0320.C52
Gene No.	95553	Strand	+
Start	146	End	296
Name	OJ000251_43.0320.C52.ol.np	Method	AAT/NAP
Start	146	End	281
GI	4585871	Score	150
Exons	146..281		
GI Descrip.	(AC005850) Unknown protein [Arabidopsis thaliana]		

Seq. No.	45217	Seq. ID	OJ000251_43.0320.C52
Gene No.	95553	Strand	+
Start	146	End	296
Name	OJ000251_43.0320.C52.ol.ts	Method	TBLASTX:Soybean
Start	152	End	296
GI	none	Score	193
Exons	152..286, 153..296, 156..287, 157..288		

Seq. No.	45217	Seq. ID	OJ000251_43.0320.C52
Gene No.	95553	Strand	+
Start	146	End	296
Name	OJ000251_43.0320.C52.ol.tm	Method	TBLASTX:Maize
Start	156	End	287
GI	none	Score	224
Exons	156..287, 158..286		

Seq. No.	45217	Seq. ID	OJ000251_43.0320.C52
Gene No.	95553	Strand	+
Start	146	End	296
Name	OJ000251_43.0320.C52.ol.gs	Method	GENSCAN
Start	165	End	284

GI	none	Score	.98
Exons	165..284		
Seq. No.	45218	Seq. ID	OJ000251_43.0320.C53
Gene No.	95554	Strand	+
Start	1	End	1038
Name	OJ000251_43.0320.C53.o1.np	Method	AAT/NAP
Start	1	End	1009
GI	6648198	Score	103
Exons	1..130, 513..619, 943..1009		
GI Descrip.	(AC013483) unknown protein [Arabidopsis thaliana]		

Seq. No.	45218	Seq. ID	OJ000251_43.0320.C53
Gene No.	95554	Strand	+
Start	1	End	1038
Name	OJ000251_43.0320.C53.o1.gs	Method	GENSCAN
Start	520	End	1038
GI	none	Score	.77
Exons	520..619, 943..1038		

Seq. No.	45219	Seq. ID	OJ000251_43.0320.C54
Gene No.	95555	Strand	-
Start	45	End	174
Name	OJ000251_43.0320.C54.o1.gs	Method	GENSCAN
Start	45	End	174
GI	none	Score	.91
Exons	45..174		

Seq. No.	45220	Seq. ID	OJ000251_43.0320.C57
Gene No.	95556	Strand	+
Start	1	End	875
Name	OJ000251_43.0320.C57.o1.np	Method	AAT/NAP
Start	1	End	875
GI	2497953	Score	460
Exons	1..212, 415..602, 704..875		
GI Descrip.	MOLYBDOPTERIN BIOSYNTHESIS CNX1 PROTEIN (MOLYBDENUM COFACTOR BIOSYNTHESIS ENZYME CNX1) gi 1263314 (L47323) molybdenum cofactor biosynthesis enzyme [Arabidopsis thaliana] gi 4469123 emb CAB38312  (AJ236870) molybdenum cofactor biosynthesis enzyme [Arabidopsis thaliana]		

Seq. No.	45220	Seq. ID	OJ000251_43.0320.C57
Gene No.	95556	Strand	+
Start	1	End	875
Name	OJ000251_43.0320.C57.o1.gs	Method	GENSCAN
Start	6	End	808
GI	none	Score	.95
Exons	6..212, 415..602, 704..808		

Seq. No.	45220	Seq. ID	OJ000251_43.0320.C57
Gene No.	95556	Strand	+
Start	1	End	875
Name	OJ000251_43.0320.C57.o1.tc	Method	TBLASTX:Cress
Start	6	End	809
GI	none	Score	224
Exons	6..224, 6..224, 412..456, 420..455, 484..594, 484..561, 485..598, 489..590, 701..808, 702..809		



Seq. No.	45220	Seq. ID	OJ000251_43.0320.C57
Gene No.	95556	Strand	+
Start	1	End	875
Name	OJ000251_43.0320.C57.o1.tm	Method	TBLASTX:Maize
Start	51	End	809
GI	none	Score	250
Exons	51..224, 54..212, 412..603, 412..594, 414..602, 687..806, 701..808, 701..808, 702..809		

Seq. No.	45220	Seq. ID	OJ000251_43.0320.C57
Gene No.	95556	Strand	+
Start	1	End	875
Name	OJ000251_43.0320.C57.o1.gp	Method	AAT/GAP
Start	466	End	814
GI	5803404	Score	450
Exons	466..602, 704..814		
GI Descrip.	2497953/sp Q39054 CNX1_ARATH 4.0e-32 MOLYBDOPTERIN BIOSYNTHESIS CNX1 PROTEIN (MOLYBDENUM COFACTOR BIOSYNTHESIS ENZYME CNX1) >gi_1263314 (L47323) molybdenum cofactor biosynthesis enzyme [Arabidopsis thaliana] >gi_4469123_emb_CAB38312 (AJ236870) molybdenum cofactor biosynthesis enzyme [Arabidopsis thaliana]		

Seq. No.	45221	Seq. ID	OJ000251_43.0320.C59
Gene No.	95557	Strand	+
Start	1	End	836
Name	OJ000251_43.0320.C59.o1.np	Method	AAT/NAP
Start	1	End	829
GI	3549652	Score	694
Exons	1..262, 364..478, 656..829		
GI Descrip.	(AJ224982) MAP3K epsilon protein kinase [Arabidopsis thaliana]		

Seq. No.	45221	Seq. ID	OJ000251_43.0320.C59
Gene No.	95557	Strand	+
Start	1	End	836
Name	OJ000251_43.0320.C59.o2.ts	Method	TBLASTX:Soybean
Start	2	End	134
GI	none	Score	82
Exons	2..130, 2..133, 3..134		

Seq. No.	45221	Seq. ID	OJ000251_43.0320.C59
Gene No.	95557	Strand	+
Start	1	End	836
Name	OJ000251_43.0320.C59.o1.gs	Method	GENSCAN
Start	106	End	769
GI	none	Score	.54
Exons	106..262, 364..478, 656..769		

Seq. No.	45221	Seq. ID	OJ000251_43.0320.C59
Gene No.	95557	Strand	+
Start	1	End	836
Name	OJ000251_43.0320.C59.o1.tm	Method	TBLASTX:Maize
Start	377	End	835
GI	none	Score	145
Exons	377..481, 380..481, 628..831, 653..835, 654..833		

Seq. No.	45221	Seq. ID	OJ000251_43.0320.C59
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Gene No.	95557	Strand	+
Start	1	End	836
Name	OJ000251_43.0320.C59.o1.gp	Method	AAT/GAP
Start	430	End	836
GI	38868_1.R1084	Score	440
Exons	430..478, 656..836		
GI Descrip.	'3549652/emb CAA12272  1.0e-31 (AJ224982) MAP3K epsilon protein kinase [Arabidopsis thaliana]'		

Seq. No.	45221	Seq. ID	OJ000251_43.0320.C59
Gene No.	95557	Strand	+
Start	1	End	836
Name	OJ000251_43.0320.C59.o1.ts	Method	TBLASTX:Soybean
Start	436	End	836
GI	none	Score	66
Exons	436..480, 437..481, 628..831, 653..835, 654..836		

Seq. No.	45221	Seq. ID	OJ000251_43.0320.C59
Gene No.	95557	Strand	+
Start	1	End	836
Name	OJ000251_43.0320.C59.o1.tc	Method	TBLASTX:Cress
Start	653	End	832
GI	none	Score	266
Exons	653..832, 658..831		

Seq. No.	45222	Seq. ID	OJ000251_43.0320.C60
Gene No.	95558	Strand	+
Start	111	End	491
Name	OJ000251_43.0320.C60.o1.gs	Method	GENSCAN
Start	111	End	491
GI	none	Score	.69
Exons	111..491		

Seq. No.	45223	Seq. ID	OJ000251_43.0320.C72
Gene No.	95559	Strand	+
Start	535	End	3089
Name	OJ000251_43.0320.C72.o1.gs	Method	GENSCAN
Start	535	End	2338
GI	none	Score	.57
Exons	535..736, 1363..1581, 1805..2121, 2233..2338		

Seq. No.	45223	Seq. ID	OJ000251_43.0320.C72
Gene No.	95559	Strand	+
Start	535	End	3089
Name	OJ000251_43.0320.C72.o2.np	Method	AAT/NAP
Start	1929	End	3089
GI	6648198	Score	254
Exons	1929..2121, 2233..2341, 3029..3089		
GI Descrip.	(AC013483) unknown protein [Arabidopsis thaliana]		

Seq. No.	45223	Seq. ID	OJ000251_43.0320.C72
Gene No.	95560	Strand	-
Start	1	End	208
Name	OJ000251_43.0320.C72.o1.np	Method	AAT/NAP
Start	1	End	183
GI	7486045	Score	224
Exons	1..183		

GI Descrip. hypothetical protein F23F1.8 - Arabidopsis thaliana  
gi|3420051|gb|AAC31852.1| (AC004680) unknown protein  
[Arabidopsis thaliana]

Seq. No.	45223	Seq. ID	OJ000251_43.0320.C72
Gene No.	95560	Strand	-
Start	1	End	208
Name	OJ000251_43.0320.C72.ol.tm	Method	TBLASTX:Maize
Start	66	End	208
GI	none	Score	151
Exons	66..203, 67..201, 68..208, 68..202		

Seq. No.	45223	Seq. ID	OJ000251_43.0320.C72
Gene No.	95560	Strand	-
Start	1	End	208
Name	OJ000251_43.0320.C72.ol.tc	Method	TBLASTX:Cress
Start	67	End	189
GI	none	Score	172
Exons	67..183, 68..184, 70..189		

Seq. No.	45223	Seq. ID	OJ000251_43.0320.C72
Gene No.	95560	Strand	-
Start	1	End	208
Name	OJ000251_43.0320.C72.ol.ts	Method	TBLASTX:Soybean
Start	67	End	205
GI	none	Score	162
Exons	67..183, 68..184, 71..205		

Seq. No.	45224	Seq. ID	OJ000251_43.0320.C73
Gene No.	95561	Strand	+
Start	179	End	264
Name	OJ000251_43.0320.C73.ol.gs	Method	GENSCAN
Start	179	End	264
GI	none	Score	.47
Exons	179..264		

Seq. No.	45225	Seq. ID	OJ000251_43.0320.C74
Gene No.	95562	Strand	+
Start	1	End	752
Name	OJ000251_43.0320.C74.ol.np	Method	AAT/NAP
Start	1	End	752
GI	7023341	Score	76
Exons	1..23, 275..358, 648..752		
GI Descrip.	(AK001830) unnamed protein product [Homo sapiens]		

Seq. No.	45226	Seq. ID	OJ000251_43.0320.C77
Gene No.	95563	Strand	+
Start	1	End	818
Name	OJ000251_43.0320.C77.ol.np	Method	AAT/NAP
Start	1	End	783
GI	7269940	Score	63
Exons	1..48, 518..647, 743..783		
GI Descrip.	(AL161577) putative protein [Arabidopsis thaliana]		

Seq. No.	45226	Seq. ID	OJ000251_43.0320.C77
Gene No.	95563	Strand	+
Start	1	End	818

Name	OJ000251_43.0320.C77.o1.tm	Method	TBLASTX:Maize
Start	512	End	648
GI	none	Score	188
Exons	512..646, 517..648, 520..648		
Seq. No.	45226	Seq. ID	OJ000251_43.0320.C77
Gene No.	95563	Strand	+
Start	1	End	818
Name	OJ000251_43.0320.C77.o1.gp	Method	AAT/GAP
Start	518	End	818
GI	215_1.R1084	Score	352
Exons	518..647, 743..818		
GI Descrip.	'4158219/emb CAA77234  0.0e+00 (Y18623) amylogenin [Oryza sativa]'		
Seq. No.	45227	Seq. ID	OJ000251_43.0320.C84
Gene No.	95564	Strand	-
Start	630	End	784
Name	OJ000251_43.0320.C84.o1.gs	Method	GENSCAN
Start	630	End	784
GI	none	Score	.85
Exons	630..784		
Seq. No.	45228	Seq. ID	OJ000251_43.0320.C85
Gene No.	95565	Strand	+
Start	1	End	1653
Name	OJ000251_43.0320.C85.o1.np	Method	AAT/NAP
Start	1	End	948
GI	7269940	Score	63
Exons	1..20, 100..229, 911..948		
GI Descrip.	(AL161577) putative protein [Arabidopsis thaliana]		
Seq. No.	45228	Seq. ID	OJ000251_43.0320.C85
Gene No.	95565	Strand	+
Start	1	End	1653
Name	OJ000251_43.0320.C85.o1.gp	Method	AAT/GAP
Start	100	End	1653
GI	215_1.R1084	Score	2732
Exons	100..229, 325..1653		
GI Descrip.	'4158219/emb CAA77234  0.0e+00 (Y18623) amylogenin [Oryza sativa]'		
Seq. No.	45228	Seq. ID	OJ000251_43.0320.C85
Gene No.	95565	Strand	+
Start	1	End	1653
Name	OJ000251_43.0320.C85.o1.gs	Method	GENSCAN
Start	386	End	1429
GI	none	Score	1
Exons	386..1429		
Seq. No.	45228	Seq. ID	OJ000251_43.0320.C85
Gene No.	95565	Strand	+
Start	1	End	1653
Name	OJ000251_43.0320.C85.o2.np	Method	AAT/NAP
Start	386	End	1426
GI	4158219	Score	1831
Exons	386..1426		

GI Descrip. (Y18623) amylogenin [Oryza sativa]

Seq. No.	45228	Seq. ID	OJ000251_43.0320.C85
Gene No.	95566	Strand	-
Start	1664	End	12092
Name	OJ000251_43.0320.C85.o5.tm	Method	TBLASTX:Maize
Start	94	End	513
GI	none	Score	188
Exons	94..228, 99..230, 379..510, 380..511, 381..512, 382..513, 384..512		

Seq. No.	45228	Seq. ID	OJ000251_43.0320.C85
Gene No.	95566	Strand	-
Start	1664	End	12092
Name	OJ000251_43.0320.C85.o1.tc	Method	TBLASTX:Cress
Start	455	End	1402
GI	none	Score	117
Exons	455..580, 592..1035, 593..1099, 626..1048, 1087..1164, 1088..1183, 1091..1168, 1211..1402		

Seq. No.	45228	Seq. ID	OJ000251_43.0320.C85
Gene No.	95566	Strand	-
Start	1664	End	12092
Name	OJ000251_43.0320.C85.o2.tw	Method	TBLASTX:Wheat
Start	455	End	682
GI	none	Score	121
Exons	455..580, 593..682		

Seq. No.	45228	Seq. ID	OJ000251_43.0320.C85
Gene No.	95566	Strand	-
Start	1664	End	12092
Name	OJ000251_43.0320.C85.o1.tm	Method	TBLASTX:Maize
Start	513	End	1433
GI	none	Score	77
Exons	513..578, 513..578, 515..589, 515..580, 593..1429, 593..1429, 1281..1433		

Seq. No.	45228	Seq. ID	OJ000251_43.0320.C85
Gene No.	95566	Strand	-
Start	1664	End	12092
Name	OJ000251_43.0320.C85.o1.ts	Method	TBLASTX:Soybean
Start	574	End	1408
GI	none	Score	63
Exons	574..678, 574..891, 593..1117, 1115..1180, 1141..1167, 1181..1216, 1210..1407, 1211..1408		

Seq. No.	45228	Seq. ID	OJ000251_43.0320.C85
Gene No.	95566	Strand	-
Start	1664	End	12092
Name	OJ000251_43.0320.C85.o1.tw	Method	TBLASTX:Wheat
Start	946	End	1390
GI	none	Score	110
Exons	946..1035, 947..1099, 1088..1183, 1211..1390		

Seq. No.	45228	Seq. ID	OJ000251_43.0320.C85
Gene No.	95566	Strand	-
Start	1664	End	12092

Name	OJ000251_43.0320.C85.o2.gs	Method	GENSCAN
Start	1664	End	12092
GI	none	Score	.82
Exons	1664..1816, 2263..2376, 2554..2605, 2770..3176, 3958..4092, 4192..4586, 4841..5532, 5630..5713, 5811..5902, 5990..6073, 6151..6330, 6874..6918, 7015..7308, 7814..8200, 8328..8514, 9180..9283, 9551..9682, 9930..10031, 10517..10607, 12048..12092		

Seq. No.	45228	Seq. ID	OJ000251_43.0320.C85
Gene No.	95566	Strand	-
Start	1664	End	12092
Name	OJ000251_43.0320.C85.o2.gp	Method	AAT/GAP
Start	1856	End	2602
GI	38868_1.R1084	Score	1120
Exons	1856..2376, 2554..2602		
GI Descrip.	'3549652/emb CAA12272  1.0e-31 (AJ224982) MAP3K epsilon protein kinase [Arabidopsis thaliana]'		

Seq. No.	45228	Seq. ID	OJ000251_43.0320.C85
Gene No.	95566	Strand	-
Start	1664	End	12092
Name	OJ000251_43.0320.C85.o4.tm	Method	TBLASTX:Maize
Start	1885	End	2655
GI	none	Score	48
Exons	1885..1923, 2036..2065, 2037..2066, 2037..2066, 2038..2067, 2137..2175, 2138..2176, 2142..2378, 2197..2379, 2199..2378, 2201..2404, 2551..2655, 2552..2653		

Seq. No.	45228	Seq. ID	OJ000251_43.0320.C85
Gene No.	95566	Strand	-
Start	1664	End	12092
Name	OJ000251_43.0320.C85.o3.ts	Method	TBLASTX:Soybean
Start	2037	End	2595
GI	none	Score	48
Exons	2037..2066, 2037..2066, 2038..2067, 2137..2175, 2138..2176, 2142..2378, 2197..2379, 2199..2378, 2201..2404, 2551..2595		

Seq. No.	45228	Seq. ID	OJ000251_43.0320.C85
Gene No.	95566	Strand	-
Start	1664	End	12092
Name	OJ000251_43.0320.C85.o4.tc	Method	TBLASTX:Cress
Start	2200	End	2379
GI	none	Score	192
Exons	2200..2379, 2201..2374		

Seq. No.	45228	Seq. ID	OJ000251_43.0320.C85
Gene No.	95566	Strand	-
Start	1664	End	12092
Name	OJ000251_43.0320.C85.o3.np	Method	AAT/NAP
Start	2203	End	11279
GI	3549652	Score	3242
Exons	2203..2376, 2554..2668, 2770..3176, 3958..4092, 4192..4586, 4841..5532, 5630..5713, 5811..5902, 5990..6073, 6151..6330, 6874..6918, 7015..7287, 7790..8157, 8328..8482, 9211..9283, 9373..9444, 9551..9682, 9930..10031, 10359..10442, 10517..10607, 10720..10793, 11259..11279		
GI Descrip.	(AJ224982) MAP3K epsilon protein kinase [Arabidopsis thaliana]		

Seq. No.	45228	Seq. ID	OJ000251_43.0320.C85
Gene No.	95566	Strand	-
Start	1664	End	12092
Name	OJ000251_43.0320.C85.o2.ts	Method	TBLASTX:Soybean
Start	2898	End	3177
GI	none	Score	251
Exons	2898..3152, 2899..3132, 2902..3177, 2903..3151		

Seq. No.	45228	Seq. ID	OJ000251_43.0320.C85
Gene No.	95566	Strand	-
Start	1664	End	12092
Name	OJ000251_43.0320.C85.o2.tc	Method	TBLASTX:Cress
Start	3963	End	4934
GI	none	Score	74
Exons	3963..4094, 3964..4083, 3964..4098, 3968..4093, 4184..4339, 4189..4338, 4352..4432, 4354..4431, 4477..4590, 4493..4591, 4842..4934, 4843..4929		

Seq. No.	45228	Seq. ID	OJ000251_43.0320.C85
Gene No.	95566	Strand	-
Start	1664	End	12092
Name	OJ000251_43.0320.C85.o2.tm	Method	TBLASTX:Maize
Start	4413	End	5670
GI	none	Score	37
Exons	4413..4433, 4415..4432, 4415..4468, 4495..4590, 4499..4591, 4502..4591, 4852..5124, 4854..5213, 4863..5189, 5187..5534, 5190..5534, 5192..5536, 5201..5572, 5629..5667, 5629..5670		

Seq. No.	45228	Seq. ID	OJ000251_43.0320.C85
Gene No.	95566	Strand	-
Start	1664	End	12092
Name	OJ000251_43.0320.C85.o3.gp	Method	AAT/GAP
Start	4454	End	5446
GI	33511_1.R1084	Score	1421
Exons	4454..4586, 4841..5446		
GI Descrip.	'3549652/emb CAA12272  2.0e-36 (AJ224982) MAP3K epsilon protein kinase [Arabidopsis thaliana]'		

Seq. No.	45228	Seq. ID	OJ000251_43.0320.C85
Gene No.	95566	Strand	-
Start	1664	End	12092
Name	OJ000251_43.0320.C85.o3.tc	Method	TBLASTX:Cress
Start	5301	End	6189
GI	none	Score	190
Exons	5301..5354, 5367..5534, 5368..5541, 5628..5726, 5629..5730, 5630..5716, 5801..5893, 5813..5836, 5987..6076, 5991..6062, 6148..6189		

Seq. No.	45228	Seq. ID	OJ000251_43.0320.C85
Gene No.	95566	Strand	-
Start	1664	End	12092
Name	OJ000251_43.0320.C85.o4.gp	Method	AAT/GAP
Start	7169	End	8190
GI	none	Score	993
Exons	7169..7308, 7814..8190		

Seq. No.	45228	Seq. ID	OJ000251_43.0320.C85
Gene No.	95566	Strand	-
Start	1664	End	12092
Name	OJ000251_43.0320.C85.o3.tm	Method	TBLASTX:Maize
Start	9135	End	10805
GI	none	Score	116
Exons	9135..9164, 9201..9287, 9202..9309, 9209..9283, 9211..9285, 9371..9445, 9373..9447, 9373..9444, 9546..9683, 9547..9675, 9551..9685, 9551..9682, 9873..10028, 9874..10011, 10006..10032, 10362..10445, 10362..10445, 10513..10608, 10514..10606, 10515..10607, 10711..10794, 10716..10805, 10719..10796, 10726..10800		

Seq. No.	45229	Seq. ID	OJ000251_43.0320.C86
Gene No.	95567	Strand	-
Start	142	End	506
Name	OJ000251_43.0320.C86.o1.np	Method	AAT/NAP
Start	142	End	506
GI	3549652	Score	231
Exons	142..315, 447..506		
GI Descrip.	(AJ224982) MAP3K epsilon protein kinase [Arabidopsis thaliana]		

Seq. No.	45229	Seq. ID	OJ000251_43.0320.C86
Gene No.	95567	Strand	-
Start	142	End	506
Name	OJ000251_43.0320.C86.o1.gs	Method	GENSCAN
Start	181	End	506
GI	none	Score	.58
Exons	181..315, 396..506		

Seq. No.	45229	Seq. ID	OJ000251_43.0320.C86
Gene No.	95568	Strand	-
Start	2595	End	3441
Name	OJ000251_43.0320.C86.o1.tm	Method	TBLASTX:Maize
Start	181	End	681
GI	none	Score	218
Exons	181..315, 182..316, 190..318, 234..356, 444..518, 448..507, 610..681		

Seq. No.	45229	Seq. ID	OJ000251_43.0320.C86
Gene No.	95568	Strand	-
Start	2595	End	3441
Name	OJ000251_43.0320.C86.o1.ts	Method	TBLASTX:Soybean
Start	181	End	318
GI	none	Score	169
Exons	181..315, 182..316, 184..318		

Seq. No.	45229	Seq. ID	OJ000251_43.0320.C86
Gene No.	95568	Strand	-
Start	2595	End	3441
Name	OJ000251_43.0320.C86.o1.gp	Method	AAT/GAP
Start	2350	End	3355
GI	20140_1.R1084	Score	656
Exons	2350..2675, 3308..3355		
GI Descrip.	'4455194/emb CAB36517.1  6.0e-22 (AL035440) putative protein [Arabidopsis thaliana]'		



Seq. No.	45229	Seq. ID	OJ000251_43.0320.C86
Gene No.	95568	Strand	-
Start	2595	End	3441
Name	OJ000251_43.0320.C86.o2.gs	Method	GENSCAN
Start	2595	End	3355
GI	none	Score	.86
Exons	2595..2675, 3308..3355		

Seq. No.	45229	Seq. ID	OJ000251_43.0320.C86
Gene No.	95568	Strand	-
Start	2595	End	3441
Name	OJ000251_43.0320.C86.o2.np	Method	AAT/NAP
Start	2612	End	3441
GI	7485346	Score	105
Exons	2612..2675, 3308..3441		
GI Descrip.	hypothetical protein F10M23.50 - Arabidopsis thaliana gi 4455194 emb CAB36517.1  (AL035440) putative protein [Arabidopsis thaliana] gi 7269523 emb CAB79526.1  (AL161565) putative protein [Arabidopsis thaliana]		

Seq. No.	45230	Seq. ID	OJ000251_43.0320.C88
Gene No.	95569	Strand	+
Start	961	End	1170
Name	OJ000251_43.0320.C88.o1.gs	Method	GENSCAN
Start	961	End	1170
GI	none	Score	1
Exons	961..1170		

Seq. No.	45230	Seq. ID	OJ000251_43.0320.C88
Gene No.	95570	Strand	-
Start	451	End	661
Name	OJ000251_43.0320.C88.o1.gp	Method	AAT/GAP
Start	451	End	661
GI	20140_1.R1084	Score	389
Exons	451..661		
GI Descrip.	'4455194/emb CAB36517.1  6.0e-22 (AL035440) putative protein [Arabidopsis thaliana]'		

Seq. No.	45231	Seq. ID	OJ000251_43.0320.C89
Gene No.	95571	Strand	+
Start	183	End	7307
Name	OJ000251_43.0320.C89.o1.gs	Method	GENSCAN
Start	183	End	7298
GI	none	Score	.72
Exons	183..411, 1349..1397, 1848..2102, 3893..4083, 4136..4262, 4335..4404, 5115..5400, 5772..7298		

Seq. No.	45231	Seq. ID	OJ000251_43.0320.C89
Gene No.	95571	Strand	+
Start	183	End	7307
Name	OJ000251_43.0320.C89.o1.np	Method	AAT/NAP
Start	4267	End	7307
GI	6358806	Score	934
Exons	4267..4352, 4862..4925, 5200..5452, 5752..5974, 6023..7307		
GI Descrip.	(AC010675) putative peptide transporter [Arabidopsis thaliana]		

Seq. No.	45231	Seq. ID	OJ000251_43.0320.C89
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Gene No.	95572	Strand	-
Start	8495	End	9213
Name	OJ000251_43.0320.C89.o1.tw	Method	TBLASTX:Wheat
Start	2352	End	2648
GI	none	Score	275
Exons	2352..2648, 2357..2647		
Seq. No.	45231	Seq. ID	OJ000251_43.0320.C89
Gene No.	95572	Strand	-
Start	8495	End	9213
Name	OJ000251_43.0320.C89.o2.tm	Method	TBLASTX:Maize
Start	2537	End	2828
GI	none	Score	264
Exons	2537..2644, 2538..2828, 2669..2698		
Seq. No.	45231	Seq. ID	OJ000251_43.0320.C89
Gene No.	95572	Strand	-
Start	8495	End	9213
Name	OJ000251_43.0320.C89.o1.tc	Method	TBLASTX:Cress
Start	5203	End	7229
GI	none	Score	86
Exons	5203..5373, 5784..5984, 6057..6218, 6404..6565, 6453..6644, 6648..6788, 6659..6799, 6870..7052, 6875..7015, 7107..7229		
Seq. No.	45231	Seq. ID	OJ000251_43.0320.C89
Gene No.	95572	Strand	-
Start	8495	End	9213
Name	OJ000251_43.0320.C89.o2.ts	Method	TBLASTX:Soybean
Start	5203	End	6218
GI	none	Score	118
Exons	5203..5388, 5232..5369, 5790..5981, 6057..6218, 6062..6214		
Seq. No.	45231	Seq. ID	OJ000251_43.0320.C89
Gene No.	95572	Strand	-
Start	8495	End	9213
Name	OJ000251_43.0320.C89.o3.tm	Method	TBLASTX:Maize
Start	5239	End	6304
GI	none	Score	106
Exons	5239..5400, 5290..5400, 5775..5831, 5853..6005, 6045..6239, 6056..6304		
Seq. No.	45231	Seq. ID	OJ000251_43.0320.C89
Gene No.	95572	Strand	-
Start	8495	End	9213
Name	OJ000251_43.0320.C89.o1.ts	Method	TBLASTX:Soybean
Start	6404	End	7220
GI	none	Score	168
Exons	6404..6565, 6405..6587, 6600..6788, 6608..6799, 6878..6988, 6879..7010, 7097..7138, 7107..7220		
Seq. No.	45231	Seq. ID	OJ000251_43.0320.C89
Gene No.	95572	Strand	-
Start	8495	End	9213
Name	OJ000251_43.0320.C89.o1.tm	Method	TBLASTX:Maize
Start	6446	End	7229
GI	none	Score	213
Exons	6446..6805, 6474..6788, 6555..6809, 6800..7021, 6873..7022,		

7113..7229, 7116..7169

Seq. No.	45231	Seq. ID	OJ000251_43.0320.C89
Gene No.	95572	Strand	-
Start	8495	End	9213
Name	OJ000251_43.0320.C89.o3.gs	Method	GENSCAN
Start	8495	End	9213
GI	none	Score	1
Exons	8495..8877, 9129..9213		

Seq. No.	45232	Seq. ID	OJ000251_43.0320.C90
Gene No.	95573	Strand	-
Start	145	End	4358
Name	OJ000251_43.0320.C90.o1.np	Method	AAT/NAP
Start	145	End	2954
GI	7509427	Score	91
Exons	145..223, 813..1330, 2926..2954		
GI Descrip.	hypothetical protein Y17G7B.13 - <i>Caenorhabditis elegans</i> gi 3947608 emb CAA19460.1  (AL023828) Y17G7B.13 [ <i>Caenorhabditis elegans</i> ]		

Seq. No.	45232	Seq. ID	OJ000251_43.0320.C90
Gene No.	95573	Strand	-
Start	145	End	4358
Name	OJ000251_43.0320.C90.o1.gs	Method	GENSCAN
Start	297	End	4358
GI	none	Score	.6
Exons	297..309, 459..601, 746..1237, 1573..1683, 1760..1800, 2413..2557, 2753..2956, 3801..3922, 4166..4358		

Seq. No.	45232	Seq. ID	OJ000251_43.0320.C90
Gene No.	95573	Strand	-
Start	145	End	4358
Name	OJ000251_43.0320.C90.o1.gp	Method	AAT/GAP
Start	503	End	892
GI	2797320	Score	441
Exons	503..601, 746..892		

Seq. No.	45232	Seq. ID	OJ000251_43.0320.C90
Gene No.	95573	Strand	-
Start	145	End	4358
Name	OJ000251_43.0320.C90.o1.tm	Method	TBLASTX:Maize
Start	739	End	1224
GI	none	Score	295
Exons	739..1044, 746..1222, 753..1181, 1066..1224		

Seq. No.	45232	Seq. ID	OJ000251_43.0320.C90
Gene No.	95573	Strand	-
Start	145	End	4358
Name	OJ000251_43.0320.C90.o2.tm	Method	TBLASTX:Maize
Start	1226	End	3927
GI	none	Score	145
Exons	1226..1336, 1227..1334, 1229..1336, 1546..1686, 1570..1686, 1574..1687, 1760..1804, 1761..1805, 2390..2557, 2409..2543, 2746..2955, 2750..2956, 2751..2957, 3790..3927, 3798..3926		

Seq. No.	45232	Seq. ID	OJ000251_43.0320.C90
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Gene No.	95573	Strand	-
Start	145	End	4358
Name	OJ000251_43.0320.C90.o2.gp	Method	AAT/GAP
Start	2438	End	3882
GI	2428576	Score	662
Exons	2438..2557, 2753..2956, 3801..3882		

Seq. No.	45233	Seq. ID	OJ000251_43.0320.C91
Gene No.	95574	Strand	-
Start	1031	End	6938
Name	OJ000251_43.0320.C91.o1.tm	Method	TBLASTX:Maize
Start	887	End	3878
GI	none	Score	62
Exons	887..940, 888..941, 892..963, 1020..1160, 1030..1167, 1031..1168, 1032..1166, 1243..1296, 1386..1460, 1394..1459, 1534..1581, 1535..1573, 3025..3102, 3028..3105, 3796..3870, 3798..3878, 3799..3861, 3800..3862		

Seq. No.	45233	Seq. ID	OJ000251_43.0320.C91
Gene No.	95574	Strand	-
Start	1031	End	6938
Name	OJ000251_43.0320.C91.o1.gs	Method	GENSCAN
Start	1031	End	6938
GI	none	Score	.76
Exons	1031..1159, 1395..1490, 1535..1573, 3031..3104, 3797..3855, 4046..4105, 4257..4356, 5754..5847, 5908..5961, 6759..6938		

Seq. No.	45233	Seq. ID	OJ000251_43.0320.C91
Gene No.	95574	Strand	-
Start	1031	End	6938
Name	OJ000251_43.0320.C91.o1.ts	Method	TBLASTX:Soybean
Start	3798	End	5091
GI	none	Score	127
Exons	3798..3878, 4021..4107, 4250..4390, 4257..4391, 5020..5091		

Seq. No.	45233	Seq. ID	OJ000251_43.0320.C91
Gene No.	95574	Strand	-
Start	1031	End	6938
Name	OJ000251_43.0320.C91.o2.tm	Method	TBLASTX:Maize
Start	4043	End	6814
GI	none	Score	83
Exons	4043..4105, 4045..4110, 4045..4107, 4250..4390, 4256..4378, 4257..4391, 5024..5083, 5026..5085, 5027..5083, 5749..5850, 5755..5820, 5894..5962, 5908..5964, 5913..5963, 6111..6149, 6718..6807, 6762..6800, 6794..6814		

Seq. No.	45234	Seq. ID	OJ000251_43.0320.C92
Gene No.	95575	Strand	-
Start	1	End	1657
Name	OJ000251_43.0320.C92.o1.np	Method	AAT/NAP
Start	1	End	1657
GI	7339707	Score	62
Exons	1..79, 672..774, 1633..1657		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	45235	Seq. ID	OJ000251_43.0320.C93
Gene No.	95576	Strand	+

Start	287	End	730
Name	OJ000251_43.0320.C93.ol.gs	Method	GENSCAN
Start	287	End	730
GI	none	Score	.5
Exons	287..367, 369..474, 690..730		

Seq. No.	45236	Seq. ID	OJ000251_43.0320.C94
Gene No.	95577	Strand	+
Start	2916	End	3981
Name	OJ000251_43.0320.C94.ol.gs	Method	GENSCAN
Start	2916	End	3981
GI	none	Score	.65
Exons	2916..3090, 3786..3981		

Seq. No.	45237	Seq. ID	OJ000251_43.0320.C95
Gene No.	95578	Strand	+
Start	1	End	363
Name	OJ000251_43.0320.C95.ol.gp	Method	AAT/GAP
Start	1	End	363
GI	18722_1.R1084	Score	498
Exons	1..137, 231..363		
GI Descrip.	'2497953/sp Q39054 CNX1_ARATH 4.0e-32 MOLYBDOPTERIN BIOSYNTHESIS CNX1 PROTEIN (MOLYBDENUM COFACTOR BIOSYNTHESIS ENZYME CNX1) >gi_1263314 (L47323) molybdenum cofactor biosynthesis enzyme [Arabidopsis thaliana] >gi_4469123_emb_CAB38312 (AJ236870) molybdenum cofactor biosynthesis enzyme [Arabidopsis thaliana]'		

Seq. No.	45237	Seq. ID	OJ000251_43.0320.C95
Gene No.	95578	Strand	+
Start	1	End	363
Name	OJ000251_43.0320.C95.ol.tw	Method	TBLASTX:Wheat
Start	55	End	361
GI	none	Score	121
Exons	55..141, 65..133, 221..298, 224..298, 325..360, 326..361		

Seq. No.	45237	Seq. ID	OJ000251_43.0320.C95
Gene No.	95578	Strand	+
Start	1	End	363
Name	OJ000251_43.0320.C95.ol.gs	Method	GENSCAN
Start	65	End	358
GI	none	Score	.99
Exons	65..137, 231..358		

Seq. No.	45238	Seq. ID	OJ000251_43.0320.C96
Gene No.	95579	Strand	+
Start	663	End	865
Name	OJ000251_43.0320.C96.ol.gp	Method	AAT/GAP
Start	663	End	865
GI	18722_1.R1084	Score	296
Exons	663..865		
GI Descrip.	'2497953/sp Q39054 CNX1_ARATH 4.0e-32 MOLYBDOPTERIN BIOSYNTHESIS CNX1 PROTEIN (MOLYBDENUM COFACTOR BIOSYNTHESIS ENZYME CNX1) >gi_1263314 (L47323) molybdenum cofactor biosynthesis enzyme [Arabidopsis thaliana] >gi_4469123_emb_CAB38312 (AJ236870) molybdenum cofactor biosynthesis enzyme [Arabidopsis thaliana]'		

Seq. No.	45238	Seq. ID	OJ000251_43.0320.C96
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Gene No.	95580	Strand	+
Start	945	End	2238
Name	OJ000251_43.0320.C96.o1.gs	Method	GENSCAN
Start	945	End	2238
GI	none	Score	.51
Exons	945..971, 1666..1841, 2142..2238		

Seq. No.	45238	Seq. ID	OJ000251_43.0320.C96
Gene No.	95581	Strand	+
Start	3004	End	4703
Name	OJ000251_43.0320.C96.o1.np	Method	AAT/NAP
Start	2990	End	4703
GI	2497953	Score	706
Exons	2990..3168, 3250..3376, 3448..3578, 3932..4033, 4116..4199, 4283..4703		

GI Descrip. MOLYBDOPTERIN BIOSYNTHESIS CNX1 PROTEIN (MOLYBDENUM COFACTOR BIOSYNTHESIS ENZYME CNX1) gi|1263314 (L47323) molybdenum cofactor biosynthesis enzyme [Arabidopsis thaliana] gi|4469123|emb|CAB38312| (AJ236870) molybdenum cofactor biosynthesis enzyme [Arabidopsis thaliana]

Seq. No.	45238	Seq. ID	OJ000251_43.0320.C96
Gene No.	95581	Strand	+
Start	3004	End	4703
Name	OJ000251_43.0320.C96.o2.gp	Method	AAT/GAP
Start	2995	End	3588
GI	32240_1.R1084	Score	797
Exons	2995..3168, 3250..3376, 3448..3588		
GI Descrip.	'2497953/sp Q39054 CNX1_ARATH 2.0e-38 MOLYBDOPTERIN BIOSYNTHESIS CNX1 PROTEIN (MOLYBDENUM COFACTOR BIOSYNTHESIS ENZYME CNX1) >gi_1263314 (L47323) molybdenum cofactor biosynthesis enzyme [Arabidopsis thaliana] >gi_4469123_emb_CAB38312_ (AJ236870) molybdenum cofactor biosynthesis enzyme [Arabidopsis thaliana]'		

Seq. No.	45238	Seq. ID	OJ000251_43.0320.C96
Gene No.	95581	Strand	+
Start	3004	End	4703
Name	OJ000251_43.0320.C96.o2.gs	Method	GENSCAN
Start	3004	End	4510
GI	none	Score	.83
Exons	3004..3168, 3250..3376, 3448..3542, 3932..4115, 4153..4199, 4283..4510		

Seq. No.	45238	Seq. ID	OJ000251_43.0320.C96
Gene No.	95581	Strand	+
Start	3004	End	4703
Name	OJ000251_43.0320.C96.o1.tm	Method	TBLASTX:Maize
Start	3085	End	3979
GI	none	Score	124
Exons	3085..3201, 3091..3123, 3244..3384, 3247..3375, 3249..3383, 3435..3578, 3445..3579, 3447..3578, 3932..3979, 3932..3979		

Seq. No.	45238	Seq. ID	OJ000251_43.0320.C96
Gene No.	95581	Strand	+
Start	3004	End	4703
Name	OJ000251_43.0320.C96.o1.ts	Method	TBLASTX:Soybean
Start	3085	End	3497

GI	none	Score	125
Exons	3085..3168, 3244..3384, 3249..3377, 3435..3497		
Seq. No.	45238	Seq. ID	OJ000251_43.0320.C96
Gene No.	95581	Strand	+
Start	3004	End	4703
Name	OJ000251_43.0320.C96.o1.tc	Method	TBLASTX:Cress
Start	3088	End	4522
GI	none	Score	112
Exons	3088..3201, 3244..3384, 3249..3377, 3435..3578, 3931..4038, 3932..4036, 4067..4195, 4110..4202, 4280..4522, 4280..4522		

Seq. No.	45238	Seq. ID	OJ000251_43.0320.C96
Gene No.	95581	Strand	+
Start	3004	End	4703
Name	OJ000251_43.0320.C96.o2.tm	Method	TBLASTX:Maize
Start	4349	End	4522
GI	none	Score	250
Exons	4349..4522, 4352..4510		

Seq. No.	45239	Seq. ID	OJ000251_43.0320.C97
Gene No.	95582	Strand	+
Start	1	End	2007
Name	OJ000251_43.0320.C97.o1.gp	Method	AAT/GAP
Start	1	End	185
GI	5803404	Score	178
Exons	1..69, 150..185		
GI Descrip.	2497953/sp Q39054 CNX1_ARATH 4.0e-32 MOLYBDOPTERIN BIOSYNTHESIS CNX1 PROTEIN (MOLYBDENUM COFACTOR BIOSYNTHESIS ENZYME CNX1) >gi_1263314 (L47323) molybdenum cofactor biosynthesis enzyme [Arabidopsis thaliana] >gi_4469123_emb_CAB38312_ (AJ236870) molybdenum cofactor biosynthesis enzyme [Arabidopsis thaliana]		

Seq. No.	45239	Seq. ID	OJ000251_43.0320.C97
Gene No.	95582	Strand	+
Start	1	End	2007
Name	OJ000251_43.0320.C97.o1.np	Method	AAT/NAP
Start	1	End	1800
GI	2497953	Score	847
Exons	1..69, 150..372, 403..473, 888..1045, 1141..1247, 1450..1506, 1594..1800		
GI Descrip.	MOLYBDOPTERIN BIOSYNTHESIS CNX1 PROTEIN (MOLYBDENUM COFACTOR BIOSYNTHESIS ENZYME CNX1) gi 1263314 (L47323) molybdenum cofactor biosynthesis enzyme [Arabidopsis thaliana] gi 4469123 emb CAB38312  (AJ236870) molybdenum cofactor biosynthesis enzyme [Arabidopsis thaliana]		

Seq. No.	45239	Seq. ID	OJ000251_43.0320.C97
Gene No.	95582	Strand	+
Start	1	End	2007
Name	OJ000251_43.0320.C97.o1.gs	Method	GENSCAN
Start	118	End	1979
GI	none	Score	.94
Exons	118..473, 888..1045, 1141..1247, 1594..1684, 1747..1979		

Seq. No.	45239	Seq. ID	OJ000251_43.0320.C97
Gene No.	95582	Strand	+

Start	1	End	2007
Name	OJ000251_43.0320.C97.o2.gp	Method	AAT/GAP
Start	1199	End	2007
GI	53279_1.R1084	Score	986
Exons	1199..1247, 1450..1506, 1594..2007		
GI Descrip.	'2497953/sp Q39054 CNX1 ARATH 2.0e-41 MOLYBDOPTERIN BIOSYNTHESIS CNX1 PROTEIN (MOLYBDENUM COFACTOR BIOSYNTHESIS ENZYME CNX1) >gi_1263314 (L47323) molybdenum cofactor biosynthesis enzyme [Arabidopsis thaliana] >gi_4469123_emb_CAB38312_ (AJ236870) molybdenum cofactor biosynthesis enzyme [Arabidopsis thaliana]'		

Seq. No.	45239	Seq. ID	OJ000251_43.0320.C97
Gene No.	95583	Strand	+
Start	2557	End	3007
Name	OJ000251_43.0320.C97.o3.gp	Method	AAT/GAP
Start	2557	End	3007
GI	none	Score	894
Exons	2557..3007		

Seq. No.	45239	Seq. ID	OJ000251_43.0320.C97
Gene No.	95584	Strand	-
Start	2846	End	5591
Name	OJ000251_43.0320.C97.o1.tc	Method	TBLASTX:Cress
Start	1	End	1770
GI	none	Score	88
Exons	1..69, 2..70, 130..333, 148..291, 153..311, 408..536, 409..471, 882..1061, 886..1059, 1100..1252, 1140..1250, 1444..1509, 1452..1517, 1593..1682, 1593..1730, 1594..1731, 1735..1770		

Seq. No.	45239	Seq. ID	OJ000251_43.0320.C97
Gene No.	95584	Strand	-
Start	2846	End	5591
Name	OJ000251_43.0320.C97.o1.tm	Method	TBLASTX:Maize
Start	1	End	1800
GI	none	Score	86
Exons	1..69, 1..69, 2..70, 100..291, 126..299, 128..283, 130..300, 303..362, 307..342, 352..471, 352..471, 885..1061, 886..1059, 1090..1248, 1139..1252, 1140..1250, 1444..1509, 1447..1506, 1452..1517, 1593..1784, 1594..1785, 1765..1800		

Seq. No.	45239	Seq. ID	OJ000251_43.0320.C97
Gene No.	95584	Strand	-
Start	2846	End	5591
Name	OJ000251_43.0320.C97.o2.gs	Method	GENSCAN
Start	2846	End	5550
GI	none	Score	.84
Exons	2846..2971, 3401..3411, 3794..3879, 4432..4488, 4581..5370, 5447..5550		

Seq. No.	45239	Seq. ID	OJ000251_43.0320.C97
Gene No.	95584	Strand	-
Start	2846	End	5591
Name	OJ000251_43.0320.C97.o4.gp	Method	AAT/GAP
Start	3461	End	4051
GI	2798312	Score	1082
Exons	3461..4051		



Seq. No.	45239	Seq. ID	OJ000251_43.0320.C97
Gene No.	95584	Strand	-
Start	2846	End	5591
Name	OJ000251_43.0320.C97.o5.gp	Method	AAT/GAP
Start	4106	End	4633
GI	none	Score	840
Exons	4106..4488, 4581..4633		

Seq. No.	45239	Seq. ID	OJ000251_43.0320.C97
Gene No.	95584	Strand	-
Start	2846	End	5591
Name	OJ000251_43.0320.C97.o2.tm	Method	TBLASTX:Maize
Start	4786	End	4971
GI	none	Score	85
Exons	4786..4899, 4790..4966, 4833..4943, 4936..4971		

Seq. No.	45239	Seq. ID	OJ000251_43.0320.C97
Gene No.	95584	Strand	-
Start	2846	End	5591
Name	OJ000251_43.0320.C97.o6.gp	Method	AAT/GAP
Start	4821	End	5591
GI	none	Score	1311
Exons	4821..5370, 5447..5591		

Seq. No.	45240	Seq. ID	OJ000251_43.0320.C98
Gene No.	95585	Strand	+
Start	8989	End	9718
Name	OJ000251_43.0320.C98.o1.gp	Method	AAT/GAP
Start	8843	End	9622
GI	61115_1.R1084	Score	842
Exons	8843..9175, 9406..9498, 9582..9622		
GI Descrip.	'2351374 2.0e-38 (U54560) putative 26S proteasome subunit athMOV34 [Arabidopsis thaliana]'		

Seq. No.	45240	Seq. ID	OJ000251_43.0320.C98
Gene No.	95585	Strand	+
Start	8989	End	9718
Name	OJ000251_43.0320.C98.o2.gs	Method	GENSCAN
Start	8989	End	9718
GI	none	Score	.83
Exons	8989..9175, 9406..9498, 9582..9718		

Seq. No.	45240	Seq. ID	OJ000251_43.0320.C98
Gene No.	95585	Strand	+
Start	8989	End	9718
Name	OJ000251_43.0320.C98.o2.np	Method	AAT/NAP
Start	8989	End	9696
GI	6919944	Score	489
Exons	8989..9175, 9406..9498, 9582..9696		
GI Descrip.	PROBABLE 26S PROTEASOME REGULATORY SUBUNIT S12 (MOV34 PROTEIN) gi 2351374 (U54560) putative 26S proteasome subunit athMOV34 [Arabidopsis thaliana]		

Seq. No.	45240	Seq. ID	OJ000251_43.0320.C98
Gene No.	95586	Strand	-
Start	137	End	7220
Name	OJ000251_43.0320.C98.o1.gs	Method	GENSCAN

Start	137	End	7201
GI	none	Score	.67
Exons	137..331, 446..582, 1765..2022, 3287..3474, 4271..4309, 4365..4409, 4926..4985, 6389..6462, 6548..6714, 6912..6981, 7064..7201		

Seq. No.	45240	Seq. ID	OJ000251_43.0320.C98
Gene No.	95586	Strand	-
Start	137	End	7220
Name	OJ000251_43.0320.C98.o1.np	Method	AAT/NAP
Start	6051	End	7198
GI	7413599	Score	545
Exons	6051..6108, 6389..6462, 6548..6714, 6912..6981, 7064..7198		
GI Descrip.	(AL163002) putative protein [Arabidopsis thaliana]		

Seq. No.	45240	Seq. ID	OJ000251_43.0320.C98
Gene No.	95586	Strand	-
Start	137	End	7220
Name	OJ000251_43.0320.C98.o1.tm	Method	TBLASTX:Maize
Start	6377	End	7220
GI	none	Score	95
Exons	6377..6463, 6379..6462, 6384..6464, 6384..6470, 6540..6638, 6542..6715, 6548..6715, 6913..6978, 6914..6979, 7057..7200, 7063..7200, 7064..7201, 7194..7220		

Seq. No.	45240	Seq. ID	OJ000251_43.0320.C98
Gene No.	95586	Strand	-
Start	137	End	7220
Name	OJ000251_43.0320.C98.o1.ts	Method	TBLASTX:Soybean
Start	6406	End	7186
GI	none	Score	43
Exons	6406..6462, 6407..6463, 6540..6638, 6542..6715, 6542..6721, 6913..6981, 6920..6982, 7049..7159, 7058..7186		

Seq. No.	45240	Seq. ID	OJ000251_43.0320.C98
Gene No.	95587	Strand	-
Start	8817	End	9681
Name	OJ000251_43.0320.C98.o2.tm	Method	TBLASTX:Maize
Start	8817	End	9679
GI	none	Score	42
Exons	8817..8885, 8989..9174, 9009..9173, 9399..9506, 9401..9502, 9407..9511, 9580..9669, 9581..9670, 9581..9679		

Seq. No.	45240	Seq. ID	OJ000251_43.0320.C98
Gene No.	95587	Strand	-
Start	8817	End	9681
Name	OJ000251_43.0320.C98.o1.tw	Method	TBLASTX:Wheat
Start	8879	End	9606
GI	none	Score	295
Exons	8879..8908, 8989..9174, 9009..9173, 9399..9506, 9405..9497, 9407..9514, 9580..9606, 9581..9604, 9583..9606		

Seq. No.	45240	Seq. ID	OJ000251_43.0320.C98
Gene No.	95587	Strand	-
Start	8817	End	9681
Name	OJ000251_43.0320.C98.o1.tc	Method	TBLASTX:Cress
Start	8989	End	9681

GI	none	Score	258
Exons	8989..9174, 9009..9173, 9399..9506, 9401..9511, 9401..9502, 9580..9660, 9581..9670, 9582..9680, 9583..9681		

Seq. No.	45240	Seq. ID	OJ000251_43.0320.C98
Gene No.	95587	Strand	
Start	8817	End	9681
Name	OJ000251_43.0320.C98.o2.ts	Method	TBLASTX:Soybean
Start	8989	End	9634
GI	none	Score	249
Exons	8989..9174, 9009..9173, 9399..9506, 9401..9493, 9580..9633, 9581..9634		

Seq. No.	45241	Seq. ID	OJ000251_42.0328.C11
Gene No.	95588	Strand	+
Start	1	End	1611
Name	OJ000251_42.0328.C11.o1.np	Method	AAT/NAP
Start	1	End	1611
GI	6850889	Score	258
Exons	1..127, 568..595, 693..903, 1213..1611		
GI Descrip.	(AL137898) putative protein [Arabidopsis thaliana]		

Seq. No.	45241	Seq. ID	OJ000251_42.0328.C11
Gene No.	95588	Strand	+
Start	1	End	1611
Name	OJ000251_42.0328.C11.o1.gp	Method	AAT/GAP
Start	558	End	1398
GI	69545_1.R1084	Score	810
Exons	558..630, 710..903, 1213..1398		
GI Descrip.	'4115379 4.0e-14 (AC005967) putative carbonyl reductase [Arabidopsis thaliana]'		

Seq. No.	45241	Seq. ID	OJ000251_42.0328.C11
Gene No.	95588	Strand	+
Start	1	End	1611
Name	OJ000251_42.0328.C11.o1.gs	Method	GENSCAN
Start	568	End	874
GI	none	Score	.82
Exons	568..630, 710..874		

Seq. No.	45241	Seq. ID	OJ000251_42.0328.C11
Gene No.	95589	Strand	+
Start	6370	End	7840
Name	OJ000251_42.0328.C11.o3.np	Method	AAT/NAP
Start	6370	End	7840
GI	5731257	Score	211
Exons	6370..6402, 7648..7840		
GI Descrip.	(AF165924) auxin-induced basic helix-loop-helix transcription factor [Gossypium hirsutum]		

Seq. No.	45241	Seq. ID	OJ000251_42.0328.C11
Gene No.	95590	Strand	-
Start	1261	End	10811
Name	OJ000251_42.0328.C11.o3.ts	Method	TBLASTX:Soybean
Start	752	End	1611
GI	none	Score	55
Exons	752..820, 814..906, 816..893, 1225..1380, 1363..1425, 1453..1611		

Seq. No.	45241	Seq. ID	OJ000251_42.0328.C11
Gene No.	95590	Strand	-
Start	1261	End	10811
Name	OJ000251_42.0328.C11.o2.tm	Method	TBLASTX:Maize
Start	1202	End	1605
GI	none	Score	121
Exons	1202..1342, 1222..1344, 1358..1411, 1360..1419, 1362..1418, 1444..1527, 1447..1605, 1472..1528		

Seq. No.	45241	Seq. ID	OJ000251_42.0328.C11
Gene No.	95590	Strand	-
Start	1261	End	10811
Name	OJ000251_42.0328.C11.o2.gs	Method	GENSCAN
Start	1261	End	10407
GI	none	Score	.41
Exons	1261..1804, 2043..2188, 4917..5159, 5566..5655, 5770..5798, 5888..5987, 6091..6344, 6978..7319, 7469..7642, 7750..7925, 8045..8270, 8417..8781, 8969..9092, 10095..10407		

Seq. No.	45241	Seq. ID	OJ000251_42.0328.C11
Gene No.	95590	Strand	-
Start	1261	End	10811
Name	OJ000251_42.0328.C11.o2.gp	Method	AAT/GAP
Start	1429	End	1890
GI	64595_1.R1084	Score	880
Exons	1429..1890		
GI Descrip.	'6041757/gb AC011806.1 AC011806 6.0e-13 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	45241	Seq. ID	OJ000251_42.0328.C11
Gene No.	95590	Strand	-
Start	1261	End	10811
Name	OJ000251_42.0328.C11.o3.gp	Method	AAT/GAP
Start	4815	End	5991
GI	uC-osflcyp029a12b1	Score	1019
Exons	4815..5159, 5566..5655, 5770..5798, 5888..5991		
GI Descrip.	'3386614 2.0e-47 (AC004665) putative transcription factor SF3 [Arabidopsis thaliana]'		

Seq. No.	45241	Seq. ID	OJ000251_42.0328.C11
Gene No.	95590	Strand	-
Start	1261	End	10811
Name	OJ000251_42.0328.C11.o2.np	Method	AAT/NAP
Start	4878	End	6228
GI	6850890	Score	616
Exons	4878..5159, 5566..5674, 5888..5987, 6091..6228		
GI Descrip.	(AL137898) LIM domain protein [Arabidopsis thaliana]		

Seq. No.	45241	Seq. ID	OJ000251_42.0328.C11
Gene No.	95590	Strand	-
Start	1261	End	10811
Name	OJ000251_42.0328.C11.o1.tm	Method	TBLASTX:Maize
Start	4881	End	6240
GI	none	Score	310
Exons	4881..5177, 4885..5157, 4995..5177, 5017..5172, 5563..5652,		

5565..5678, 5567..5650, 5578..5637, 5768..5812, 5877..5993,  
5880..5987, 5886..5993, 5887..5994, 6079..6228, 6092..6229,  
6109..6222, 6116..6220, 6188..6232, 6214..6240

Seq. No.	45241	Seq. ID	OJ000251_42.0328.C11
Gene No.	95590	Strand	-
Start	1261	End	10811
Name	OJ000251_42.0328.C11.o2.tw	Method	TBLASTX:Wheat
Start	4953	End	6232
GI	none	Score	71
Exons	4953..5177, 4996..5067, 5563..5652, 5563..5652, 5564..5653, 5895..5993, 5911..5982, 6079..6228, 6092..6229, 6133..6231, 6134..6232		

Seq. No.	45241	Seq. ID	OJ000251_42.0328.C11
Gene No.	95590	Strand	-
Start	1261	End	10811
Name	OJ000251_42.0328.C11.o1.ts	Method	TBLASTX:Soybean
Start	4971	End	6226
GI	none	Score	102
Exons	4971..5177, 5014..5160, 5569..5640, 5862..5993, 5899..5994, 6079..6225, 6080..6226		

Seq. No.	45241	Seq. ID	OJ000251_42.0328.C11
Gene No.	95590	Strand	-
Start	1261	End	10811
Name	OJ000251_42.0328.C11.o1.tc	Method	TBLASTX:Cress
Start	4977	End	6226
GI	none	Score	74
Exons	4977..5177, 5014..5151, 5569..5628, 5596..5652, 5829..5993, 5899..5994, 6079..6225, 6095..6226		

Seq. No.	45241	Seq. ID	OJ000251_42.0328.C11
Gene No.	95590	Strand	-
Start	1261	End	10811
Name	OJ000251_42.0328.C11.o4.tm	Method	TBLASTX:Maize
Start	7621	End	7840
GI	none	Score	117
Exons	7621..7698, 7622..7699, 7696..7758, 7697..7759, 7763..7840, 7763..7837		

Seq. No.	45241	Seq. ID	OJ000251_42.0328.C11
Gene No.	95590	Strand	-
Start	1261	End	10811
Name	OJ000251_42.0328.C11.o2.ts	Method	TBLASTX:Soybean
Start	7625	End	8082
GI	none	Score	291
Exons	7625..7840, 7627..7839, 7882..7920, 7972..8082, 8016..8066		

Seq. No.	45241	Seq. ID	OJ000251_42.0328.C11
Gene No.	95590	Strand	-
Start	1261	End	10811
Name	OJ000251_42.0328.C11.o2.tc	Method	TBLASTX:Cress
Start	7648	End	7840
GI	none	Score	266
Exons	7648..7839, 7649..7840		

Seq. No.	45241	Seq. ID	OJ000251_42.0328.C11
Gene No.	95590	Strand	-
Start	1261	End	10811
Name	OJ000251_42.0328.C11.o5.tm	Method	TBLASTX:Maize
Start	7971	End	8278
GI	none	Score	58
Exons	7971..8012, 7972..8013, 8007..8120, 8008..8121, 8129..8278		

Seq. No.	45241	Seq. ID	OJ000251_42.0328.C11
Gene No.	95590	Strand	-
Start	1261	End	10811
Name	OJ000251_42.0328.C11.o1.tw	Method	TBLASTX:Wheat
Start	10246	End	10635
GI	none	Score	155
Exons	10246..10299, 10301..10597, 10303..10635		

Seq. No.	45241	Seq. ID	OJ000251_42.0328.C11
Gene No.	95590	Strand	-
Start	1261	End	10811
Name	OJ000251_42.0328.C11.o3.tm	Method	TBLASTX:Maize
Start	10339	End	10811
GI	none	Score	73
Exons	10339..10419, 10447..10611, 10457..10594, 10616..10660, 10667..10798, 10668..10811		

Seq. No.	45242	Seq. ID	OJ000251_42.0328.C12
Gene No.	95591	Strand	+
Start	1073	End	4557
Name	OJ000251_42.0328.C12.o1.gs	Method	GENSCAN
Start	1073	End	4557
GI	none	Score	.45
Exons	1073..1098, 1513..1633, 2519..2582, 3220..3315, 4472..4557		

Seq. No.	45242	Seq. ID	OJ000251_42.0328.C12
Gene No.	95592	Strand	+
Start	4997	End	18011
Name	OJ000251_42.0328.C12.o2.gs	Method	GENSCAN
Start	4997	End	18011
GI	none	Score	.46
Exons	4997..5038, 9596..9668, 10820..10951, 11117..11640, 12186..12470, 12862..13139, 13421..13595, 13901..14068, 14130..14211, 14945..15070, 15212..15236, 15458..16134, 17220..17363, 17571..17714, 17839..18011		

Seq. No.	45242	Seq. ID	OJ000251_42.0328.C12
Gene No.	95592	Strand	+
Start	4997	End	18011
Name	OJ000251_42.0328.C12.o1.gp	Method	AAT/GAP
Start	13345	End	15535
GI	30629_1.R1084	Score	851
Exons	13345..13595, 13939..14068, 15458..15535		
GI Descrip.	'2980794/emb CAA18170.1  3.0e-38 (AL022197) myb-like protein [Arabidopsis thaliana]'		

Seq. No.	45242	Seq. ID	OJ000251_42.0328.C12
Gene No.	95592	Strand	+
Start	4997	End	18011

Name	OJ000251_42.0328.C12.o2.gp	Method	AAT/GAP
Start	15828	End	16430
GI	none	Score	1132
Exons	15828..16430		
Seq. No.	45242	Seq. ID	OJ000251_42.0328.C12
Gene No.	95593	Strand	+
Start	19939	End	24119
Name	OJ000251_42.0328.C12.o1.tw	Method	TBLASTX:Wheat
Start	576	End	957
GI	none	Score	138
Exons	576..902, 634..957, 818..928		
Seq. No.	45242	Seq. ID	OJ000251_42.0328.C12
Gene No.	95593	Strand	+
Start	19939	End	24119
Name	OJ000251_42.0328.C12.o2.tm	Method	TBLASTX:Maize
Start	13447	End	15497
GI	none	Score	271
Exons	13447..13518, 13448..13597, 13539..13673, 13934..14095, 13935..14096, 15455..15496, 15456..15497		
Seq. No.	45242	Seq. ID	OJ000251_42.0328.C12
Gene No.	95593	Strand	+
Start	19939	End	24119
Name	OJ000251_42.0328.C12.o2.ts	Method	TBLASTX:Soybean
Start	13517	End	15566
GI	none	Score	100
Exons	13517..13597, 13934..14095, 13935..14096, 15456..15566		
Seq. No.	45242	Seq. ID	OJ000251_42.0328.C12
Gene No.	95593	Strand	+
Start	19939	End	24119
Name	OJ000251_42.0328.C12.o2.tc	Method	TBLASTX:Cress
Start	13937	End	14093
GI	none	Score	187
Exons	13937..14089, 13938..14093		
Seq. No.	45242	Seq. ID	OJ000251_42.0328.C12
Gene No.	95593	Strand	+
Start	19939	End	24119
Name	OJ000251_42.0328.C12.o3.gs	Method	GENSCAN
Start	19939	End	23529
GI	none	Score	.77
Exons	19939..19989, 20136..20335, 20831..21310, 21715..21775, 22824..23058, 23291..23529		
Seq. No.	45242	Seq. ID	OJ000251_42.0328.C12
Gene No.	95593	Strand	+
Start	19939	End	24119
Name	OJ000251_42.0328.C12.o1.np	Method	AAT/NAP
Start	20994	End	24119
GI	3775993	Score	906
Exons	20994..21301, 21715..21775, 22824..23058, 23291..23543, 24015..24119		
GI Descrip.	(AJ010460) RNA helicase [Arabidopsis thaliana]		

Seq. No.	45242	Seq. ID	OJ000251_42.0328.C12
Gene No.	95593	Strand	+
Start	19939	End	24119
Name	OJ000251_42.0328.C12.o1.tc	Method	TBLASTX:Cress
Start	21713	End	23529
GI	none	Score	90
Exons	21713..21775, 21715..21777, 22803..23060, 22821..23075, 23292..23528, 23305..23529		

Seq. No.	45242	Seq. ID	OJ000251_42.0328.C12
Gene No.	95593	Strand	+
Start	19939	End	24119
Name	OJ000251_42.0328.C12.o1.ts	Method	TBLASTX:Soybean
Start	21713	End	23529
GI	none	Score	102
Exons	21713..21775, 22818..22874, 22821..22877, 22878..23057, 22883..23017, 22885..23061, 23289..23528, 23290..23529, 23305..23529		

Seq. No.	45242	Seq. ID	OJ000251_42.0328.C12
Gene No.	95593	Strand	+
Start	19939	End	24119
Name	OJ000251_42.0328.C12.o1.tm	Method	TBLASTX:Maize
Start	22910	End	23529
GI	none	Score	193
Exons	22910..23056, 22917..23057, 22917..23057, 22927..23061, 23289..23528, 23290..23529, 23305..23529		

Seq. No.	45243	Seq. ID	OJ000251_42.0328.C13
Gene No.	95594	Strand	+
Start	1055	End	7068
Name	OJ000251_42.0328.C13.o1.np	Method	AAT/NAP
Start	1055	End	2881
GI	7436453	Score	959
Exons	1055..1328, 1420..1600, 2241..2329, 2646..2719, 2806..2881		
GI Descrip.	probable RNA helicase (EC 3.6.1.-) F6N23.6 - Arabidopsis thaliana gi 3047117 gb AAC13628.1  (AF058919) similar to ATP-dependent RNA helicases [Arabidopsis thaliana] gi 7267405 emb CAB80875.1  (AL161472) putative RNA helicase [Arabidopsis thaliana]		

Seq. No.	45243	Seq. ID	OJ000251_42.0328.C13
Gene No.	95594	Strand	+
Start	1055	End	7068
Name	OJ000251_42.0328.C13.o1.gp	Method	AAT/GAP
Start	1076	End	1613
GI	LIB3433-060-P1-K1-H2	Score	823
Exons	1076..1328, 1420..1613		
GI Descrip.	'1044915/emb CAA61765  1.0e-39 (X89605) ORF2, myb-leu sequence [Oryza sativa] >gi_1262381_emb_CAA65524_ (X96749) ORF2 [Oryza sativa]'		

Seq. No.	45243	Seq. ID	OJ000251_42.0328.C13
Gene No.	95594	Strand	+
Start	1055	End	7068
Name	OJ000251_42.0328.C13.o1.gs	Method	GENSCAN
Start	1077	End	7068



GI none Score .65  
 Exons 1077..1328, 1420..1600, 2241..2329, 2646..2719, 2858..2961, 3924..3995, 5145..5247, 5964..6166, 6959..7068  
  
 Seq. No. 45243 Seq. ID OJ000251\_42.0328.C13  
 Gene No. 95595 Strand +  
 Start 7622 End 10289  
 Name OJ000251\_42.0328.C13.o2.gp Method AAT/GAP  
 Start 7622 End 8804  
 GI 1044913 Score 2307  
 Exons 7622..8804  
 GI Descrip. 1044915/emb|CAA61765| 1.0e-39 (X89605) ORF2, myb-leu sequence [Oryza sativa] >gi\_1262381\_emb\_CAA65524\_ (X96749) ORF2 [Oryza sativa]

Seq. No. 45243 Seq. ID OJ000251\_42.0328.C13  
 Gene No. 95595 Strand +  
 Start 7622 End 10289  
 Name OJ000251\_42.0328.C13.o2.np Method AAT/NAP  
 Start 7730 End 7849  
 GI 7489486 Score 194  
 Exons 7730..7849  
 GI Descrip. hypothetical protein 1 - rice gi|1044914|emb|CAA61764.1| (X89605) ORF1, leaderorf1 sequence [Oryza sativa] gi|1262380|emb|CAA65523.1| (X96749) ORF [Oryza sativa]

Seq. No. 45243 Seq. ID OJ000251\_42.0328.C13  
 Gene No. 95595 Strand +  
 Start 7622 End 10289  
 Name OJ000251\_42.0328.C13.o2.gs Method GENSCAN  
 Start 8102 End 10289  
 GI none Score .92  
 Exons 8102..8234, 8743..8872, 8912..8989, 9650..10289

Seq. No. 45243 Seq. ID OJ000251\_42.0328.C13  
 Gene No. 95595 Strand +  
 Start 7622 End 10289  
 Name OJ000251\_42.0328.C13.o3.np Method AAT/NAP  
 Start 8102 End 9826  
 GI 7489500 Score 707  
 Exons 8102..8234, 8745..8872, 9650..9826  
 GI Descrip. myb7 protein homolog - rice (fragment) gi|1262378|emb|CAA65526.1| (X96750) myb7 [Oryza sativa]

Seq. No. 45243 Seq. ID OJ000251\_42.0328.C13  
 Gene No. 95596 Strand -  
 Start 10264 End 10611  
 Name OJ000251\_42.0328.C13.o1.tm Method TBLASTX:Maize  
 Start 1053 End 3990  
 GI none Score 435  
 Exons 1053..1328, 1074..1361, 1076..1330, 1406..1594, 1410..1598, 1417..1605, 2227..2349, 2242..2331, 2249..2350, 2645..2722, 2646..2723, 2647..2724, 2801..2905, 2806..2907, 2806..2892, 2912..2962, 2923..2970, 3835..3870, 3836..3874, 3940..3990, 3945..3989

Seq. No. 45243 Seq. ID OJ000251\_42.0328.C13

Gene No.	95596	Strand	-
Start	10264	End	10611
Name	OJ000251_42.0328.C13.o1.ts	Method	TBLASTX:Soybean
Start	1053	End	1605
GI	none	Score	404
Exons	1053..1328, 1074..1361, 1076..1330, 1410..1598, 1417..1605		

Seq. No.	45243	Seq. ID	OJ000251_42.0328.C13
Gene No.	95596	Strand	-
Start	10264	End	10611
Name	OJ000251_42.0328.C13.o1.tw	Method	TBLASTX:Wheat
Start	1074	End	2833
GI	none	Score	413
Exons	1074..1361, 1074..1322, 1076..1330, 1407..1598, 1410..1601, 1417..1605, 1445..1600, 2215..2331, 2233..2319, 2237..2341, 2249..2332, 2256..2336, 2646..2723, 2648..2722, 2801..2833, 2803..2832		

Seq. No.	45243	Seq. ID	OJ000251_42.0328.C13
Gene No.	95596	Strand	-
Start	10264	End	10611
Name	OJ000251_42.0328.C13.o1.tc	Method	TBLASTX:Cress
Start	1172	End	2886
GI	none	Score	248
Exons	1172..1330, 1173..1331, 1393..1605, 1404..1598, 2227..2331, 2249..2350, 2645..2722, 2646..2726, 2803..2886, 2807..2884		

Seq. No.	45243	Seq. ID	OJ000251_42.0328.C13
Gene No.	95596	Strand	-
Start	10264	End	10611
Name	OJ000251_42.0328.C13.o2.ts	Method	TBLASTX:Soybean
Start	2267	End	2889
GI	none	Score	113
Exons	2267..2350, 2269..2349, 2645..2722, 2646..2723, 2801..2884, 2806..2889		

Seq. No.	45243	Seq. ID	OJ000251_42.0328.C13
Gene No.	95596	Strand	-
Start	10264	End	10611
Name	OJ000251_42.0328.C13.o2.tw	Method	TBLASTX:Wheat
Start	6923	End	8873
GI	none	Score	57
Exons	6923..7057, 7951..7983, 8101..8187, 8101..8235, 8114..8236, 8735..8866, 8739..8873		

Seq. No.	45243	Seq. ID	OJ000251_42.0328.C13
Gene No.	95596	Strand	-
Start	10264	End	10611
Name	OJ000251_42.0328.C13.o2.tc	Method	TBLASTX:Cress
Start	8101	End	9752
GI	none	Score	166
Exons	8101..8235, 8114..8260, 8738..8830, 8739..8873, 9647..9727, 9648..9752, 9687..9752		

Seq. No.	45243	Seq. ID	OJ000251_42.0328.C13
Gene No.	95596	Strand	-
Start	10264	End	10611

Name	OJ000251_42.0328.C13.o3.ts	Method	TBLASTX:Soybean
Start	8101	End	9719
GI	none	Score	181
Exons	8101..8235, 8114..8236, 8736..8873, 8738..8830, 9647..9718, 9648..9719		

Seq. No.	45243	Seq. ID	OJ000251_42.0328.C13
Gene No.	95596	Strand	-
Start	10264	End	10611
Name	OJ000251_42.0328.C13.o2.tm	Method	TBLASTX:Maize
Start	8101	End	9729
GI	none	Score	107
Exons	8101..8184, 8101..8235, 8114..8260, 8738..8866, 8739..8873, 8744..8875, 9632..9727, 9648..9728, 9652..9729		

Seq. No.	45243	Seq. ID	OJ000251_42.0328.C13
Gene No.	95596	Strand	-
Start	10264	End	10611
Name	OJ000251_42.0328.C13.o3.gp	Method	AAT/GAP
Start	10264	End	10611
GI	3107643	Score	656
Exons	10264..10611		

Seq. No.	45244	Seq. ID	OJ000251_42.0328.C14
Gene No.	95597	Strand	+
Start	1	End	1077
Name	OJ000251_42.0328.C14.o1.np	Method	AAT/NAP
Start	1	End	1077
GI	6815099	Score	79
Exons	1..59, 952..1077		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	45244	Seq. ID	OJ000251_42.0328.C14
Gene No.	95598	Strand	+
Start	2104	End	2366
Name	OJ000251_42.0328.C14.o1.gs	Method	GENSCAN
Start	2104	End	2366
GI	none	Score	1
Exons	2104..2366		

Seq. No.	45244	Seq. ID	OJ000251_42.0328.C14
Gene No.	95599	Strand	+
Start	6383	End	7396
Name	OJ000251_42.0328.C14.o2.gs	Method	GENSCAN
Start	6383	End	7396
GI	none	Score	.67
Exons	6383..6543, 6825..6940, 7086..7184, 7304..7396		

Seq. No.	45245	Seq. ID	OJ000251_42.0328.C15
Gene No.	95600	Strand	+
Start	156	End	563
Name	OJ000251_42.0328.C15.o1.gs	Method	GENSCAN
Start	156	End	563
GI	none	Score	.93
Exons	156..165, 305..383, 407..563		

Seq. No.	45245	Seq. ID	OJ000251_42.0328.C15
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Gene No.	95601	Strand	+
Start	3429	End	7971
Name	OJ000251_42.0328.C15.o3.gs	Method	GENSCAN
Start	3429	End	7971
GI	none	Score	.68
Exons	3429..3563, 3670..3756, 6184..6245, 7875..7971		
Seq. No.	45245	Seq. ID	OJ000251_42.0328.C15
Gene No.	95602	Strand	-
Start	1128	End	2738
Name	OJ000251_42.0328.C15.o2.gs	Method	GENSCAN
Start	1128	End	2691
GI	none	Score	.98
Exons	1128..1328, 1764..1845, 2026..2113, 2197..2268, 2523..2691		
Seq. No.	45245	Seq. ID	OJ000251_42.0328.C15
Gene No.	95602	Strand	-
Start	1128	End	2738
Name	OJ000251_42.0328.C15.o1.np	Method	AAT/NAP
Start	1137	End	2738
GI	6850893	Score	339
Exons	1137..1328, 1764..1845, 2026..2113, 2197..2266, 2536..2738		
GI Descrip.	(AL137898) putative DNA-binding protein [Arabidopsis thaliana]		
Seq. No.	45245	Seq. ID	OJ000251_42.0328.C15
Gene No.	95603	Strand	-
Start	8895	End	9078
Name	OJ000251_42.0328.C15.o1.gp	Method	AAT/GAP
Start	8895	End	9078
GI	LIB3434-010-P1-K1-G5	Score	340
Exons	8895..9078		
GI Descrip.	'2129953/pir  JC5229 3.0e-39 laccase (EC 1.10.3.2) - common tobacco >gi_1685087 (U43542) diphenol oxidase [Nicotiana tabacum]'		
Seq. No.	45246	Seq. ID	OJ000251_42.0328.C16
Gene No.	95604	Strand	-
Start	1	End	2827
Name	OJ000251_42.0328.C16.o1.gp	Method	AAT/GAP
Start	1	End	105
GI	LIB3434-010-P1-K1-G5	Score	190
Exons	1..105		
GI Descrip.	'2129953/pir  JC5229 3.0e-39 laccase (EC 1.10.3.2) - common tobacco >gi_1685087 (U43542) diphenol oxidase [Nicotiana tabacum]'		
Seq. No.	45246	Seq. ID	OJ000251_42.0328.C16
Gene No.	95604	Strand	-
Start	1	End	2827
Name	OJ000251_42.0328.C16.o1.np	Method	AAT/NAP
Start	1	End	2827
GI	7486819	Score	605
Exons	1..212, 700..902, 983..1031, 2149..2347, 2760..2827		
GI Descrip.	hypothetical protein M7J2.60 - Arabidopsis thaliana gi 2980793 emb CAA18169.1  (AL022197) putative protein [Arabidopsis thaliana]		

Seq. No.	45246	Seq. ID	OJ000251_42.0328.C16
Gene No.	95605	Strand	-
Start	3095	End	4511
Name	OJ000251_42.0328.C16.o1.tc	Method	TBLASTX:Cress
Start	3	End	2211
GI	none	Score	152
Exons	3..215, 4..213, 4..225, 700..813, 707..853, 824..850, 984..1031, 2146..2211, 2150..2194		

Seq. No.	45246	Seq. ID	OJ000251_42.0328.C16
Gene No.	95605	Strand	-
Start	3095	End	4511
Name	OJ000251_42.0328.C16.o1.tm	Method	TBLASTX:Maize
Start	3	End	2281
GI	none	Score	270
Exons	3..218, 4..213, 9..215, 695..907, 700..903, 701..904, 702..905, 981..1037, 984..1031, 2059..2085, 2128..2214, 2146..2268, 2147..2281		

Seq. No.	45246	Seq. ID	OJ000251_42.0328.C16
Gene No.	95605	Strand	-
Start	3095	End	4511
Name	OJ000251_42.0328.C16.o1.ts	Method	TBLASTX:Soybean
Start	3	End	897
GI	none	Score	202
Exons	3..218, 4..213, 26..214, 695..874, 700..897, 700..870		

Seq. No.	45246	Seq. ID	OJ000251_42.0328.C16
Gene No.	95605	Strand	-
Start	3095	End	4511
Name	OJ000251_42.0328.C16.o2.np	Method	AAT/NAP
Start	3095	End	4511
GI	6691203	Score	77
Exons	3095..3186, 4398..4511		
GI Descrip.	(AC007508) FlK23.7 [Arabidopsis thaliana]		

Seq. No.	45247	Seq. ID	OJ000251_42.0328.C17
Gene No.	95606	Strand	-
Start	997	End	2666
Name	OJ000251_42.0328.C17.o1.gs	Method	GENSCAN
Start	997	End	2666
GI	none	Score	.53
Exons	997..1829, 2231..2666		

Seq. No.	45247	Seq. ID	OJ000251_42.0328.C17
Gene No.	95607	Strand	-
Start	3485	End	12271
Name	OJ000251_42.0328.C17.o2.gs	Method	GENSCAN
Start	3485	End	12271
GI	none	Score	.7
Exons	3485..3504, 4126..4234, 4319..4530, 4867..5821, 5988..6725, 7104..7311, 7847..9801, 10260..10352, 10491..10529, 10581..10664, 10737..10829, 11014..11445, 12119..12271		

Seq. No.	45247	Seq. ID	OJ000251_42.0328.C17
Gene No.	95608	Strand	-
Start	13834	End	14662

Name	OJ000251_42.0328.C17.o1.tw	Method	TBLASTX:Wheat
Start	9016	End	9457
GI	none	Score	54
Exons	9016..9081, 9024..9080, 9025..9081, 9072..9386, 9073..9456, 9074..9457		

Seq. No.	45247	Seq. ID	OJ000251_42.0328.C17
Gene No.	95608	Strand	-
Start	13834	End	14662
Name	OJ000251_42.0328.C17.o1.np	Method	AAT/NAP
Start	13834	End	14662
GI	5734621	Score	774
Exons	13834..14054, 14092..14348, 14437..14535, 14636..14662		
GI Descrip.	(AP000391) ESTs AU067992(C11433),AU077424(C11433) correspond to a region of the predicted gene.; Similar to ABC transporter-7 (U43892) [Oryza sativa]		

Seq. No.	45248	Seq. ID	OJ000251_42.0328.C18
Gene No.	95609	Strand	+
Start	1162	End	3579
Name	OJ000251_42.0328.C18.o3.tm	Method	TBLASTX:Maize
Start	1011	End	1280
GI	none	Score	117
Exons	1011..1145, 1013..1117, 1146..1280, 1157..1267, 1191..1277		

Seq. No.	45248	Seq. ID	OJ000251_42.0328.C18
Gene No.	95609	Strand	+
Start	1162	End	3579
Name	OJ000251_42.0328.C18.o2.ts	Method	TBLASTX:Soybean
Start	1122	End	1391
GI	none	Score	91
Exons	1122..1220, 1160..1240, 1221..1391		

Seq. No.	45248	Seq. ID	OJ000251_42.0328.C18
Gene No.	95609	Strand	+
Start	1162	End	3579
Name	OJ000251_42.0328.C18.o1.np	Method	AAT/NAP
Start	1162	End	3579
GI	6522568	Score	1244
Exons	1162..1546, 1957..2149, 2349..2413, 2492..2702, 3296..3579		
GI Descrip.	(AL132967) putative protein [Arabidopsis thaliana]		

Seq. No.	45248	Seq. ID	OJ000251_42.0328.C18
Gene No.	95609	Strand	+
Start	1162	End	3579
Name	OJ000251_42.0328.C18.o1.gs	Method	GENSCAN
Start	1236	End	2702
GI	none	Score	.69
Exons	1236..1546, 1957..2114, 2467..2702		

Seq. No.	45248	Seq. ID	OJ000251_42.0328.C18
Gene No.	95609	Strand	+
Start	1162	End	3579
Name	OJ000251_42.0328.C18.o1.tm	Method	TBLASTX:Maize
Start	1335	End	2053
GI	none	Score	347
Exons	1335..1547, 1335..1547, 1337..1552, 1956..2051, 1957..2052,		

1957..2052, 1958..2053

Seq. No.	45248	Seq. ID	OJ000251_42.0328.C18
Gene No.	95609	Strand	+
Start	1162	End	3579
Name	OJ000251_42.0328.C18.o1.tc	Method	TBLASTX:Cress
Start	2039	End	2702
GI	none	Score	65
Exons	2039..2092, 2084..2149, 2343..2414, 2344..2433, 2347..2424, 2485..2601, 2488..2631, 2489..2632, 2489..2641, 2490..2642, 2664..2702		

Seq. No.	45248	Seq. ID	OJ000251_42.0328.C18
Gene No.	95609	Strand	+
Start	1162	End	3579
Name	OJ000251_42.0328.C18.o1.ts	Method	TBLASTX:Soybean
Start	2488	End	2706
GI	none	Score	306
Exons	2488..2595, 2489..2686, 2490..2705, 2650..2706		

Seq. No.	45248	Seq. ID	OJ000251_42.0328.C18
Gene No.	95609	Strand	+
Start	1162	End	3579
Name	OJ000251_42.0328.C18.o2.tm	Method	TBLASTX:Maize
Start	2605	End	3542
GI	none	Score	146
Exons	2605..2706, 2607..2702, 3292..3411, 3293..3409, 3409..3444, 3409..3444, 3456..3542, 3457..3537, 3458..3541		

Seq. No.	45248	Seq. ID	OJ000251_42.0328.C18
Gene No.	95609	Strand	+
Start	1162	End	3579
Name	OJ000251_42.0328.C18.o2.tc	Method	TBLASTX:Cress
Start	3311	End	3560
GI	none	Score	142
Exons	3311..3409, 3316..3432, 3438..3560, 3458..3538		

Seq. No.	45249	Seq. ID	OJ000251_42.0328.C19
Gene No.	95610	Strand	+
Start	1966	End	2217
Name	OJ000251_42.0328.C19.o1.np	Method	AAT/NAP
Start	1966	End	2217
GI	552132	Score	113
Exons	1966..2217		
GI Descrip.	(K01664) Bkm-like protein [Drosophila melanogaster]		

Seq. No.	45249	Seq. ID	OJ000251_42.0328.C19
Gene No.	95611	Strand	-
Start	1712	End	1778
Name	OJ000251_42.0328.C19.o1.gs	Method	GENSCAN
Start	1712	End	1778
GI	none	Score	.96
Exons	1712..1778		

Seq. No.	45250	Seq. ID	OJ000251_42.0328.C20
Gene No.	95612	Strand	-
Start	1040	End	2611

Name	OJ000251_42.0328.C20.o1.np	Method	AAT/NAP
Start	1040	End	2611
GI	6907088	Score	519
Exons	1040..1447, 2056..2298, 2474..2611		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	45250	Seq. ID	OJ000251_42.0328.C20
Gene No.	95613	Strand	-
Start	5342	End	7476
Name	OJ000251_42.0328.C20.o2.np	Method	AAT/NAP
Start	5342	End	7476
GI	6688926	Score	398
Exons	5342..5449, 5903..6078, 6779..6881, 6974..7089, 7180..7261, 7351..7476		
GI Descrip.	(AJ251365) VAP27 [Nicotiana plumbaginifolia]		

Seq. No.	45250	Seq. ID	OJ000251_42.0328.C20
Gene No.	95613	Strand	-
Start	5342	End	7476
Name	OJ000251_42.0328.C20.o1.tm	Method	TBLASTX:Maize
Start	6609	End	7420
GI	none	Score	167
Exons	6609..6656, 6759..6881, 6954..7091, 6967..7086, 6968..7093, 7180..7263, 7181..7276, 7185..7277, 7348..7419, 7349..7420		

Seq. No.	45250	Seq. ID	OJ000251_42.0328.C20
Gene No.	95613	Strand	-
Start	5342	End	7476
Name	OJ000251_42.0328.C20.o1.gp	Method	AAT/GAP
Start	6743	End	7421
GI	uC-osflcyp155b03b1	Score	652
Exons	6743..6881, 6974..7089, 7180..7261, 7351..7421		
GI Descrip.	'4895238/gb AAD32823.1 AC007659_5 1.0e-39 (AC007659) unknown protein [Arabidopsis thaliana]'		

Seq. No.	45250	Seq. ID	OJ000251_42.0328.C20
Gene No.	95613	Strand	-
Start	5342	End	7476
Name	OJ000251_42.0328.C20.o1.ts	Method	TBLASTX:Soybean
Start	6819	End	7420
GI	none	Score	111
Exons	6819..6890, 6966..7091, 6974..7093, 7181..7309, 7185..7262, 7348..7419, 7349..7420		

Seq. No.	45250	Seq. ID	OJ000251_42.0328.C20
Gene No.	95613	Strand	-
Start	5342	End	7476
Name	OJ000251_42.0328.C20.o1.tc	Method	TBLASTX:Cress
Start	6966	End	7420
GI	none	Score	95
Exons	6966..7094, 6974..7093, 7181..7309, 7182..7262, 7348..7419, 7349..7420		

Seq. No.	45251	Seq. ID	OJ000251_42.0328.C21
Gene No.	95614	Strand	+
Start	176	End	292
Name	OJ000251_42.0328.C21.o1.gp	Method	AAT/GAP



Start	176	End	292
GI	uC-osflcyp155b03b1	Score	201
Exons	176..292		
GI Descrip.	'4895238/gb AAD32823.1 AC007659_5 1.0e-39 (AC007659) unknown protein [Arabidopsis thaliana]'		

Seq. No.	45251	Seq. ID	OJ000251_42.0328.C21
Gene No.	95615	Strand	+
Start	1115	End	1699
Name	OJ000251_42.0328.C21.o1.gs	Method	GENSCAN
Start	1115	End	1699
GI	none	Score	.75
Exons	1115..1121, 1235..1362, 1592..1699		

Seq. No.	45251	Seq. ID	OJ000251_42.0328.C21
Gene No.	95616	Strand	+
Start	3718	End	3815
Name	OJ000251_42.0328.C21.o1.np	Method	AAT/NAP
Start	3718	End	3815
GI	5777617	Score	96
Exons	3718..3815		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	45251	Seq. ID	OJ000251_42.0328.C21
Gene No.	95617	Strand	-
Start	3182	End	6600
Name	OJ000251_42.0328.C21.o2.gs	Method	GENSCAN
Start	3182	End	6600
GI	none	Score	.64
Exons	3182..3260, 3863..3987, 4052..4146, 4194..4377, 4734..4889, 6370..6600		

Seq. No.	45251	Seq. ID	OJ000251_42.0328.C21
Gene No.	95618	Strand	-
Start	8955	End	9739
Name	OJ000251_42.0328.C21.o2.gp	Method	AAT/GAP
Start	8535	End	8742
GI	2798014	Score	391
Exons	8535..8742		

Seq. No.	45251	Seq. ID	OJ000251_42.0328.C21
Gene No.	95618	Strand	-
Start	8955	End	9739
Name	OJ000251_42.0328.C21.o3.gs	Method	GENSCAN
Start	8955	End	9507
GI	none	Score	.49
Exons	8955..9050, 9252..9278, 9407..9507		

Seq. No.	45251	Seq. ID	OJ000251_42.0328.C21
Gene No.	95618	Strand	-
Start	8955	End	9739
Name	OJ000251_42.0328.C21.o2.np	Method	AAT/NAP
Start	8979	End	9739
GI	7486543	Score	143
Exons	8979..9146, 9281..9323, 9622..9739		
GI Descrip.	hypothetical protein F6N15.22 - Arabidopsis thaliana gi 3193331 gb AAC19313.1  (AF069299) F6N15.22 gene product		

[Arabidopsis thaliana] gi|7267105|emb|CAB80776.1| (AL161471)  
putative YABBY3 axial regulator [Arabidopsis thaliana]

Seq. No.	45252	Seq. ID	OJ000251_42.0328.C22
Gene No.	95619	Strand	-
Start	1	End	879
Name	OJ000251_42.0328.C22.o1.np	Method	AAT/NAP
Start	1	End	879
GI	4928753	Score	125
Exons	1..25, 125..200, 330..457, 839..879		
GI Descrip.	(AF136540) YABBY3 [Arabidopsis thaliana]		

Seq. No.	45252	Seq. ID	OJ000251_42.0328.C22
Gene No.	95619	Strand	-
Start	1	End	879
Name	OJ000251_42.0328.C22.o1.gs	Method	GENSCAN
Start	65	End	506
GI	none	Score	.62
Exons	65..200, 330..378, 438..506		

Seq. No.	45253	Seq. ID	OJ000251_42.0328.C32
Gene No.	95620	Strand	+
Start	1	End	490
Name	OJ000251_42.0328.C32.o1.np	Method	AAT/NAP
Start	1	End	485
GI	122779	Score	818
Exons	1..485		
GI Descrip.	POTENTIAL HEME-BINDING PROTEIN (ORF 230) gi 82542 pir  S05118 hypothetical protein 230 - rice chloroplast gi 11999 emb CAA33960  (X15901) ORF230 [Oryza sativa] gi 226620 prf  1603356AT ORF 230 [Oryza sativa]		

Seq. No.	45253	Seq. ID	OJ000251_42.0328.C32
Gene No.	95620	Strand	+
Start	1	End	490
Name	OJ000251_42.0328.C32.o1.ts	Method	TBLASTX:Soybean
Start	23	End	490
GI	none	Score	476
Exons	23..490, 24..482		

Seq. No.	45253	Seq. ID	OJ000251_42.0328.C32
Gene No.	95620	Strand	+
Start	1	End	490
Name	OJ000251_42.0328.C32.o1.tc	Method	TBLASTX:Cress
Start	177	End	482
GI	none	Score	335
Exons	177..482, 179..481		

Seq. No.	45253	Seq. ID	OJ000251_42.0328.C32
Gene No.	95621	Strand	
Start	538	End	742
Name	OJ000251_42.0328.C32.o1.tm	Method	TBLASTX:Maize
Start	538	End	742
GI	none	Score	58
Exons	538..576, 540..584, 573..656, 575..655, 578..703, 591..656, 655..741, 657..704, 710..742, 712..741		

Seq. No.	45254	Seq. ID	OJ000251_42.0328.C34
Gene No.	95622	Strand	-
Start	1	End	959
Name	OJ000251_42.0328.C34.o1.np	Method	AAT/NAP
Start	1	End	568
GI	6539588	Score	221
Exons	1..53, 246..568		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	45254	Seq. ID	OJ000251_42.0328.C34
Gene No.	95622	Strand	-
Start	1	End	959
Name	OJ000251_42.0328.C34.o1.gs	Method	GENSCAN
Start	268	End	959
GI	none	Score	.4
Exons	268..474, 937..959		

Seq. No.	45255	Seq. ID	OJ000251_42.0328.C37
Gene No.	95623	Strand	-
Start	8	End	541
Name	OJ000251_42.0328.C37.o1.gs	Method	GENSCAN
Start	8	End	541
GI	none	Score	.62
Exons	8..187, 499..541		

Seq. No.	45256	Seq. ID	OJ000251_42.0328.C39
Gene No.	95624	Strand	+
Start	59	End	450
Name	OJ000251_42.0328.C39.o1.gs	Method	GENSCAN
Start	59	End	450
GI	none	Score	.98
Exons	59..450		

Seq. No.	45257	Seq. ID	OJ000251_37.0315.C18
Gene No.	95625	Strand	+
Start	1	End	165
Name	OJ000251_37.0315.C18.o1.gp	Method	AAT/GAP
Start	1	End	165
GI	11928 1.R1084	Score	307
Exons	1..165		
GI Descrip.	'549010/sp P35614 ERF1_ARATH 1.0e-107 EUKARYOTIC PEPTIDE CHAIN RELEASE FACTOR SUBUNIT 1 (ERF1) (OMNIPOTENT SUPPRESSOR PROTEIN 1 HOMOLOG) (SUP1 HOMOLOG) >gi_322554_pir_S31328 omnipotent suppressor protein SUP1 homolog (clone G18) - Arabidopsis thaliana >gi_16514_emb_CAA49172_ (X69375) similar to yeast omnipotent suppressor protein SUP1 (SUP45) [Arabidopsis thaliana] >gi_1402882_emb_'		

Seq. No.	45257	Seq. ID	OJ000251_37.0315.C18
Gene No.	95626	Strand	+
Start	426	End	522
Name	OJ000251_37.0315.C18.o1.gs	Method	GENSCAN
Start	426	End	522
GI	none	Score	.73
Exons	426..522		

Seq. No.	45257	Seq. ID	OJ000251_37.0315.C18
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Gene No.	95627	Strand	-
Start	1	End	165
Name	OJ000251_37.0315.C18.o1.np	Method	AAT/NAP
Start	1	End	135
GI	1155261	Score	190
Exons	1..135		
GI Descrip.	(U40217) eukaryotic release factor 1 homolog [Arabidopsis thaliana]		

Seq. No.	45257	Seq. ID	OJ000251_37.0315.C18
Gene No.	95627	Strand	-
Start	1	End	165
Name	OJ000251_37.0315.C18.o1.tc	Method	TBLASTX:Cress
Start	1	End	147
GI	none	Score	147
Exons	1..147, 11..142		

Seq. No.	45257	Seq. ID	OJ000251_37.0315.C18
Gene No.	95627	Strand	-
Start	1	End	165
Name	OJ000251_37.0315.C18.o1.ts	Method	TBLASTX:Soybean
Start	1	End	145
GI	none	Score	69
Exons	1..144, 4..135, 11..145		

Seq. No.	45257	Seq. ID	OJ000251_37.0315.C18
Gene No.	95627	Strand	-
Start	1	End	165
Name	OJ000251_37.0315.C18.o1.tm	Method	TBLASTX:Maize
Start	1	End	165
GI	none	Score	208
Exons	1..165, 11..163, 106..165		

Seq. No.	45258	Seq. ID	OJ000251_37.0315.C22
Gene No.	95628	Strand	+
Start	175	End	261
Name	OJ000251_37.0315.C22.o1.gs	Method	GENSCAN
Start	175	End	261
GI	none	Score	.45
Exons	175..261		

Seq. No.	45259	Seq. ID	OJ000251_37.0315.C38
Gene No.	95629	Strand	-
Start	587	End	704
Name	OJ000251_37.0315.C38.o1.gs	Method	GENSCAN
Start	587	End	704
GI	none	Score	.92
Exons	587..704		

Seq. No.	45260	Seq. ID	OJ000251_37.0315.C39
Gene No.	95630	Strand	+
Start	814	End	1593
Name	OJ000251_37.0315.C39.o1.gs	Method	GENSCAN
Start	814	End	1593
GI	none	Score	.58
Exons	814..819, 1153..1422, 1528..1593		

Seq. No.	45261	Seq. ID	OJ000251_37.0315.C40
Gene No.	95631	Strand	+
Start	81	End	1739
Name	OJ000251_37.0315.C40.o1.gs	Method	GENSCAN
Start	81	End	1739
GI	none	Score	.73
Exons	81..179, 1723..1739		

Seq. No.	45262	Seq. ID	OJ000251_37.0315.C41
Gene No.	95632	Strand	+
Start	407	End	1547
Name	OJ000251_37.0315.C41.o1.np	Method	AAT/NAP
Start	407	End	1547
GI	5852182	Score	91
Exons	407..544, 1479..1547		
GI Descrip.	(AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	45262	Seq. ID	OJ000251_37.0315.C41
Gene No.	95632	Strand	+
Start	407	End	1547
Name	OJ000251_37.0315.C41.o1.gp	Method	AAT/GAP
Start	1030	End	1547
GI	2310235	Score	186
Exons	1030..1067, 1479..1547		
GI Descrip.	5852182/emb CAB55420.1  9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	45263	Seq. ID	OJ000251_37.0315.C42
Gene No.	95633	Strand	+
Start	1	End	3453
Name	OJ000251_37.0315.C42.o1.gp	Method	AAT/GAP
Start	1	End	3453
GI	342_1.R1084	Score	5768
Exons	1..2887, 3006..3110, 3220..3453		
GI Descrip.	'4574406/gb AAD24042.1  0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	45263	Seq. ID	OJ000251_37.0315.C42
Gene No.	95633	Strand	+
Start	1	End	3453
Name	OJ000251_37.0315.C42.o4.tw	Method	TBLASTX:Wheat
Start	3	End	385
GI	none	Score	45
Exons	3..98, 95..184, 170..241, 266..385		

Seq. No.	45263	Seq. ID	OJ000251_37.0315.C42
Gene No.	95633	Strand	+
Start	1	End	3453
Name	OJ000251_37.0315.C42.o1.ts	Method	TBLASTX:Soybean
Start	97	End	526
GI	none	Score	102
Exons	97..180, 98..172, 173..235, 230..526, 284..508		

Seq. No.	45263	Seq. ID	OJ000251_37.0315.C42
Gene No.	95633	Strand	+
Start	1	End	3453
Name	OJ000251_37.0315.C42.o2.tc	Method	TBLASTX:Cress

Start 259  
GI none  
Exons 259..411, 266..607, 451..588

End 607  
Score 308

Seq. No. 45263  
Gene No. 95633  
Start 1  
Name OJ000251\_37.0315.C42.o1.np  
Start 287  
GI 6742729  
Exons 287..2245  
GI Descrip. (AF121139) RIM2 protein [Oryza sativa]

Seq. ID OJ000251\_37.0315.C42  
Strand +  
End 3453  
Method AAT/NAP  
End 2245  
Score 3161

Seq. No. 45263  
Gene No. 95633  
Start 1  
Name OJ000251\_37.0315.C42.o1.gs  
Start 353  
GI none  
Exons 353..1390, 1513..2142, 2214..2402, 2408..2803

Seq. ID OJ000251\_37.0315.C42  
Strand +  
End 3453  
Method GENSCAN  
End 2803  
Score .65

Seq. No. 45263  
Gene No. 95633  
Start 1  
Name OJ000251\_37.0315.C42.o2.tw  
Start 395  
GI none  
Exons 395..448, 403..447, 449..553, 460..549, 557..655, 562..654, 635..859, 655..864, 658..864

Seq. ID OJ000251\_37.0315.C42  
Strand +  
End 3453  
Method TBLASTX:Wheat  
End 864  
Score 72

Seq. No. 45263  
Gene No. 95633  
Start 1  
Name OJ000251\_37.0315.C42.o1.tm  
Start 440  
GI none  
Exons 440..694, 452..694, 704..898

Seq. ID OJ000251\_37.0315.C42  
Strand +  
End 3453  
Method TBLASTX:Maize  
End 898  
Score 247

Seq. No. 45263  
Gene No. 95633  
Start 1  
Name OJ000251\_37.0315.C42.o2.ts  
Start 728  
GI none  
Exons 728..970

Seq. ID OJ000251\_37.0315.C42  
Strand +  
End 3453  
Method TBLASTX:Soybean  
End 970  
Score 216

Seq. No. 45263  
Gene No. 95633  
Start 1  
Name OJ000251\_37.0315.C42.o3.tw  
Start 1003  
GI none  
Exons 1003..1053, 1004..1066, 1072..1254, 1076..1294, 1322..1411, 1327..1413, 1328..1411

Seq. ID OJ000251\_37.0315.C42  
Strand +  
End 3453  
Method TBLASTX:Wheat  
End 1413  
Score 87

Seq. No. 45263  
Gene No. 95633

Seq. ID OJ000251\_37.0315.C42  
Strand +

Start	1	End	3453
Name	OJ000251_37.0315.C42.o1.tw	Method	TBLASTX:Wheat
Start	1414	End	2728
GI	none	Score	198
Exons	1414..1578, 1415..1573, 1579..2130, 1580..1879, 1581..2114, 1999..2124, 2112..2330, 2171..2314, 2325..2369, 2329..2364, 2372..2422, 2376..2414, 2440..2553, 2441..2554, 2443..2562, 2567..2647, 2636..2728		

Seq. No.	45263	Seq. ID	OJ000251_37.0315.C42
Gene No.	95633	Strand	+
Start	1	End	3453
Name	OJ000251_37.0315.C42.o2.tm	Method	TBLASTX:Maize
Start	1457	End	1770
GI	none	Score	109
Exons	1457..1570, 1572..1742, 1579..1770		

Seq. No.	45263	Seq. ID	OJ000251_37.0315.C42
Gene No.	95633	Strand	+
Start	1	End	3453
Name	OJ000251_37.0315.C42.o1.tc	Method	TBLASTX:Cress
Start	1701	End	2130
GI	none	Score	179
Exons	1701..2126, 1701..2114, 1705..2130, 1999..2124		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95634	Strand	+
Start	1	End	5978
Name	OJ000251_37.0315.C43.o2.np	Method	AAT/NAP
Start	1	End	2058
GI	7494310	Score	84
Exons	1..33, 417..691, 2034..2058		
GI Descrip.	hypothetical protein PFB0680w - malaria parasite (Plasmodium falciparum) gi 3845248 gb AAC71925.1  (AE001410) hypothetical protein [Plasmodium falciparum]		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95634	Strand	+
Start	1	End	5978
Name	OJ000251_37.0315.C43.o1.gs	Method	GENSCAN
Start	138	End	5978
GI	none	Score	.59
Exons	138..729, 1227..1300, 2265..2997, 3003..3307, 3370..3534, 3580..3699, 3774..4873, 4983..5156, 5253..5363, 5448..5520, 5615..5713, 5793..5978		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95634	Strand	+
Start	1	End	5978
Name	OJ000251_37.0315.C43.o1.np	Method	AAT/NAP
Start	2250	End	3345
GI	4680204	Score	664
Exons	2250..3345		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95634	Strand	+

Start	1	End	5978
Name	OJ000251_37.0315.C43.o3.np	Method	AAT/NAP
Start	2250	End	5960
GI	4680204	Score	1029
Exons	2250..3699, 3774..4873, 4983..5156, 5253..5472, 5823..5960		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95635	Strand	+
Start	28906	End	50272
Name	OJ000251_37.0315.C43.o6.gs	Method	GENSCAN
Start	28906	End	50272
GI	none	Score	.74
Exons	28906..29200, 29806..29906, 30866..30987, 31072..31168, 31267..31377, 31477..31605, 32188..32279, 32367..32499, 32601..32738, 35331..35391, 35618..35667, 35817..35871, 36768..36993, 37076..37160, 37255..37415, 38170..38293, 38427..38521, 38607..38730, 38798..38949, 39998..40107, 40200..40325, 40409..40477, 40565..40754, 41030..41141, 41233..41352, 41440..41555, 41644..41727, 42075..42187, 42263..42492, 42615..43412, 43529..43579, 43699..43884, 44678..44741, 45370..45644, 46423..46541, 46575..46628, 46645..46753, 46860..46917, 47190..47542, 47567..47678, 47836..47919, 48295..48387, 49477..49686, 49698..50272		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95635	Strand	+
Start	28906	End	50272
Name	OJ000251_37.0315.C43.o6.np	Method	AAT/NAP
Start	32419	End	45615
GI	4263722	Score	3712
Exons	32419..32499, 32601..32738, 32817..32893, 32971..33064, 33347..33461, 34132..34466, 35623..35682, 35808..35903, 36692..36774, 36844..37155, 37255..37415, 38170..38293, 38384..38521, 38795..38949, 39998..40107, 40200..40325, 40565..40754, 41030..41180, 41236..41352, 41440..41555, 41644..41727, 42075..42187, 42263..42492, 42615..43415, 43528..43579, 43699..43884, 45370..45615		
GI Descrip.	(AC006223) putative glucan synthase [Arabidopsis thaliana]		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95635	Strand	+
Start	28906	End	50272
Name	OJ000251_37.0315.C43.o7.np	Method	AAT/NAP
Start	42137	End	48184
GI	6069646	Score	648
Exons	42137..42157, 46361..46903, 47196..48184		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95635	Strand	+
Start	28906	End	50272
Name	OJ000251_37.0315.C43.o6.gp	Method	AAT/GAP



Start	45472	End	45960
GI	34187_1.R1084	Score	962
Exons	45472..45960		
GI Descrip.	'4558672/gb AAD22690.1 AC007063_16 3.0e-13 (AC007063) putative 1,3-beta-D-glucan synthase [Arabidopsis thaliana]'		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95635	Strand	+
Start	28906	End	50272
Name	OJ000251_37.0315.C43.o9.np	Method	AAT/NAP
Start	49479	End	50252
GI	4567258	Score	432
Exons	49479..49607, 49698..50252		
GI Descrip.	(AC007070) unknown protein [Arabidopsis thaliana]		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95636	Strand	+
Start	51165	End	51368
Name	OJ000251_37.0315.C43.o7.gs	Method	GENSCAN
Start	51165	End	51368
GI	none	Score	.92
Exons	51165..51368		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95637	Strand	+
Start	59021	End	59110
Name	OJ000251_37.0315.C43.o10.np	Method	AAT/NAP
Start	59021	End	59110
GI	5852084	Score	73
Exons	59021..59110		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95638	Strand	-
Start	6360	End	6503
Name	OJ000251_37.0315.C43.o3.gp	Method	AAT/GAP
Start	6360	End	6503
GI	21474_1.R1084	Score	251
Exons	6360..6503		
GI Descrip.	'3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95639	Strand	-
Start	6418	End	9902
Name	OJ000251_37.0315.C43.o2.gs	Method	GENSCAN
Start	6418	End	9902
GI	none	Score	.89
Exons	6418..6588, 9730..9786, 9849..9902		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95640	Strand	-
Start	12090	End	16390
Name	OJ000251_37.0315.C43.o4.gp	Method	AAT/GAP
Start	11824	End	14052
GI	42003_1.R1084	Score	1561
Exons	11824..12409, 13344..13402, 13751..13866, 13990..14052		

GI Descrip. '4006886/emb|CAB16816.1| 7.0e-62 (Z99708) putative protein [Arabidopsis thaliana]'

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95640	Strand	-
Start	12090	End	16390
Name	OJ000251_37.0315.C43.o3.gs	Method	GENSCAN
Start	12090	End	16390
GI	none	Score	.95
Exons	12090..12409, 13344..13402, 13751..13866, 14141..14353, 14469..14588, 15157..15277, 16245..16390		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95641	Strand	-
Start	20634	End	27532
Name	OJ000251_37.0315.C43.o5.gs	Method	GENSCAN
Start	20634	End	27532
GI	none	Score	.63
Exons	20634..20672, 20825..21166, 22368..22497, 22703..22742, 23133..23247, 24548..24714, 24999..25191, 25197..25285, 25607..25726, 27415..27532		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95641	Strand	-
Start	20634	End	27532
Name	OJ000251_37.0315.C43.o4.np	Method	AAT/NAP
Start	20770	End	23251
GI	7446321	Score	268
Exons	20770..20901, 20962..21150, 21225..21296, 21386..21492, 22372..22497, 23006..23038, 23108..23251		
GI Descrip.	probable phosphoesterase (EC 3.1.-.-) slr0418 - Synechocystis sp. (strain PCC 6803) gi 1001650 dbj BAA10381.1  (D64002) hypothetical protein [Synechocystis sp.]		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95641	Strand	-
Start	20634	End	27532
Name	OJ000251_37.0315.C43.o5.np	Method	AAT/NAP
Start	23605	End	25312
GI	6539588	Score	221
Exons	23605..23654, 24999..25312		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95642	Strand	-
Start	47959	End	49231
Name	OJ000251_37.0315.C43.o8.np	Method	AAT/NAP
Start	47959	End	49231
GI	6498457	Score	118
Exons	47959..48066, 49205..49231		
GI Descrip.	(AP000816) EST AU032536(S10696) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o4.tw	Method	TBLASTX:Wheat

Start	2893	End	3295
GI	none	Score	72
Exons	2893..2973, 2895..2978, 2953..3162, 2957..3130, 3200..3295		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o9.tw	Method	TBLASTX:Wheat
Start	4800	End	5322
GI	none	Score	60
Exons	4800..4880, 4969..5151, 5019..5144, 5251..5322		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o4.ts	Method	TBLASTX:Soybean
Start	12090	End	13401
GI	none	Score	149
Exons	12090..12248, 12097..12255, 12219..12416, 12337..12417, 13330..13401, 13342..13401		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o9.tc	Method	TBLASTX:Cress
Start	12096	End	12416
GI	none	Score	140
Exons	12096..12248, 12097..12249, 12117..12263, 12119..12316, 12327..12416		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o2.tm	Method	TBLASTX:Maize
Start	12173	End	14568
GI	none	Score	207
Exons	12173..12412, 12174..12416, 12328..12420, 13332..13403, 13337..13429, 13342..13437, 13742..13846, 13750..13857, 13753..13857, 13987..14052, 13991..14059, 14140..14355, 14144..14356, 14145..14354, 14463..14567, 14466..14567, 14470..14568		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o2.ts	Method	TBLASTX:Soybean
Start	13970	End	15280
GI	none	Score	101
Exons	13970..14059, 13987..14052, 13991..14059, 14134..14355, 14144..14356, 14145..14354, 14463..14588, 14466..14570, 14470..14589, 14980..15069, 14988..15068, 15157..15279, 15158..15280, 15158..15280		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o2.tc	Method	TBLASTX:Cress

Start	14144	End	14579
GI	none	Score	200
Exons	14144..14356, 14166..14354, 14168..14356, 14466..14567, 14469..14579, 14470..14571		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o6.tm	Method	TBLASTX:Maize
Start	14983	End	16387
GI	none	Score	72
Exons	14983..15069, 14990..15052, 15151..15282, 15157..15282, 15164..15283, 16325..16387		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o1.tw	Method	TBLASTX:Wheat
Start	16808	End	43037
GI	none	Score	430
Exons	16808..16972, 42713..43024, 42714..43037, 42723..43037		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o12.tm	Method	TBLASTX:Maize
Start	20762	End	21014
GI	none	Score	123
Exons	20762..20887, 20763..20912, 20765..20914, 20963..21013, 20969..21013, 20979..21014		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o4.tc	Method	TBLASTX:Cress
Start	20777	End	23389
GI	none	Score	47
Exons	20777..20896, 20969..21022, 20982..21026, 21035..21151, 21039..21152, 21220..21306, 21221..21307, 21381..21503, 21384..21494, 21385..21507, 22380..22439, 22386..22478, 23123..23248, 23132..23254, 23357..23389, 23361..23384		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o9.tm	Method	TBLASTX:Maize
Start	21215	End	21496
GI	none	Score	128
Exons	21215..21307, 21223..21306, 21254..21307, 21381..21491, 21383..21496, 21386..21490		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o8.tm	Method	TBLASTX:Maize
Start	22462	End	23736
GI	none	Score	78

Exons 22462..22500, 22462..22500, 22973..23053, 23006..23053,  
23071..23250, 23105..23248, 23358..23384, 23360..23389,  
23686..23736

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o5.tw	Method	TBLASTX:Wheat
Start	31679	End	32505
GI	none	Score	83
Exons	31679..31765, 32185..32277, 32187..32276, 32387..32491, 32388..32486, 32389..32505		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o6.ts	Method	TBLASTX:Soybean
Start	32636	End	47257
GI	none	Score	82
Exons	32636..32707, 32637..32708, 32804..32896, 32805..32897, 32966..33025, 32977..33024, 47041..47121, 47159..47257		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o10.tm	Method	TBLASTX:Maize
Start	35826	End	37421
GI	none	Score	102
Exons	35826..35906, 35828..35902, 36683..36787, 36911..36994, 36943..36984, 37059..37163, 37082..37159, 37242..37421, 37252..37416		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o5.ts	Method	TBLASTX:Soybean
Start	38798	End	40689
GI	none	Score	213
Exons	38798..38959, 38812..38943, 39996..40127, 39998..40108, 40057..40128, 40202..40282, 40242..40313, 40265..40324, 40408..40467, 40603..40689		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o11.tm	Method	TBLASTX:Maize
Start	40247	End	41358
GI	none	Score	80
Exons	40247..40324, 40408..40461, 40630..40749, 40632..40769, 41040..41123, 41226..41348, 41230..41358		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o1.ts	Method	TBLASTX:Soybean
Start	41226	End	45582
GI	none	Score	187

Exons 41226..41348, 41230..41358, 41230..41352, 41436..41555,  
41440..41553, 41632..41727, 41642..41728, 42066..42179,  
42069..42188, 42073..42189, 42261..42491, 42262..42498,  
42262..42492, 42615..43307, 42705..43217, 42761..43282,  
43225..43287, 43281..43415, 43326..43385, 43717..43887,  
45370..45582, 45379..45552, 45453..45581

Seq. No. 45264 Seq. ID OJ000251\_37.0315.C43  
Gene No. 95643 Strand -  
Start 61457 End 63780  
Name OJ000251\_37.0315.C43.o6.tc Method TBLASTX:Cress  
Start 41269 End 42129  
GI none Score 131  
Exons 41269..41358, 41271..41348, 41436..41555, 41440..41553,  
41666..41728, 41668..41727, 42058..42129

Seq. No. 45264 Seq. ID OJ000251\_37.0315.C43  
Gene No. 95643 Strand -  
Start 61457 End 63780  
Name OJ000251\_37.0315.C43.o3.tm Method TBLASTX:Maize  
Start 41438 End 42486  
GI none Score 47  
Exons 41438..41545, 41439..41573, 41440..41553, 41641..41724,  
41642..41728, 41642..41725, 41644..41733, 42069..42188,  
42073..42189, 42261..42464, 42261..42410, 42262..42486,  
42262..42465, 42407..42478

Seq. No. 45264 Seq. ID OJ000251\_37.0315.C43  
Gene No. 95643 Strand -  
Start 61457 End 63780  
Name OJ000251\_37.0315.C43.o1.tc Method TBLASTX:Cress  
Start 42129 End 42827  
GI none Score 79  
Exons 42129..42188, 42130..42189, 42261..42329, 42262..42330,  
42322..42498, 42324..42479, 42615..42827

Seq. No. 45264 Seq. ID OJ000251\_37.0315.C43  
Gene No. 95643 Strand -  
Start 61457 End 63780  
Name OJ000251\_37.0315.C43.o7.tw Method TBLASTX:Wheat  
Start 42357 End 42713  
GI none Score 161  
Exons 42357..42479, 42358..42498, 42376..42492, 42615..42713

Seq. No. 45264 Seq. ID OJ000251\_37.0315.C43  
Gene No. 95643 Strand -  
Start 61457 End 63780  
Name OJ000251\_37.0315.C43.o1.tm Method TBLASTX:Maize  
Start 42636 End 45588  
GI none Score 760  
Exons 42636..43301, 42636..43070, 42644..43291, 43281..43415,  
43529..43549, 43750..43881, 45378..45587, 45385..45588,  
45385..45576, 45390..45581

Seq. No. 45264 Seq. ID OJ000251\_37.0315.C43  
Gene No. 95643 Strand -  
Start 61457 End 63780

Name	OJ000251_37.0315.C43.o5.tc	Method	TBLASTX:Cress
Start	42833	End	43046
GI	none	Score	317
Exons	42833..43021, 42834..43046, 42859..43029		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o8.tc	Method	TBLASTX:Cress
Start	43047	End	43298
GI	none	Score	246
Exons	43047..43298, 43112..43291		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o3.tw	Method	TBLASTX:Wheat
Start	43717	End	45612
GI	none	Score	152
Exons	43717..43887, 43722..43871, 45366..45611, 45370..45612, 45378..45605		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o7.tc	Method	TBLASTX:Cress
Start	43753	End	45612
GI	none	Score	106
Exons	43753..43887, 45370..45612, 45373..45576, 45378..45581		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o5.tm	Method	TBLASTX:Maize
Start	44941	End	47979
GI	none	Score	98
Exons	44941..45039, 47698..47898, 47698..47979, 47705..47977		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o7.tm	Method	TBLASTX:Maize
Start	46460	End	47112
GI	none	Score	112
Exons	46460..46615, 46477..46581, 46665..46691, 46673..46807, 46849..47112		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o6.tw	Method	TBLASTX:Wheat
Start	46763	End	47209
GI	none	Score	39
Exons	46763..46813, 46818..46901, 46849..47055, 46965..47024, 47150..47209		

Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
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Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o13.tm	Method	TBLASTX:Maize
Start	47140	End	47370
GI	none	Score	201
Exons	47140..47370, 47141..47365		
Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o8.tw	Method	TBLASTX:Wheat
Start	47366	End	47758
GI	none	Score	87
Exons	47366..47506, 47603..47758		
Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o3.ts	Method	TBLASTX:Soybean
Start	49519	End	50011
GI	none	Score	134
Exons	49519..49602, 49520..49606, 49697..50011		
Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o4.tm	Method	TBLASTX:Maize
Start	49519	End	50011
GI	none	Score	115
Exons	49519..49599, 49520..49606, 49697..50011		
Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o2.tw	Method	TBLASTX:Wheat
Start	49522	End	50011
GI	none	Score	107
Exons	49522..49599, 49523..49606, 49697..50011		
Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o3.tc	Method	TBLASTX:Cress
Start	49541	End	49981
GI	none	Score	91
Exons	49541..49606, 49697..49981, 49726..49917		
Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o12.np	Method	AAT/NAP
Start	61457	End	63780
GI	7489910	Score	95
Exons	61457..61610, 63759..63780		
GI Descrip.	trfA protein - slime mold (Dictyostelium discoideum) gi 3599670 dbj BAA33143.1  (AB009080) TRFA [Dictyostelium discoideum]		



Seq. No.	45264	Seq. ID	OJ000251_37.0315.C43
Gene No.	95643	Strand	-
Start	61457	End	63780
Name	OJ000251_37.0315.C43.o9.gs	Method	GENSCAN
Start	62558	End	63605
GI	none	Score	.89
Exons	62558..62644, 63500..63605		

Seq. No.	45265	Seq. ID	OJ000251_37.0315.C44
Gene No.	95644	Strand	+
Start	109	End	215
Name	OJ000251_37.0315.C44.o1.gs	Method	GENSCAN
Start	109	End	215
GI	none	Score	.44
Exons	109..215		

Seq. No.	45265	Seq. ID	OJ000251_37.0315.C44
Gene No.	95645	Strand	+
Start	1089	End	4114
Name	OJ000251_37.0315.C44.o2.gs	Method	GENSCAN
Start	1089	End	4114
GI	none	Score	.57
Exons	1089..1182, 1790..1815, 2171..2224, 3854..4018, 4094..4114		

Seq. No.	45265	Seq. ID	OJ000251_37.0315.C44
Gene No.	95646	Strand	+
Start	14675	End	15355
Name	OJ000251_37.0315.C44.o2.gp	Method	AAT/GAP
Start	14675	End	15355
GI	723 2.R1084	Score	844
Exons	14675..14742, 14827..14930, 15026..15355		
GI Descrip.	'3176667 1.0e-17 (AC004393) Similar to hypothetical 41.9KD protein gb_1001369 from sequence of Synechocystis sp. gb_D64006. [Arabidopsis thaliana]'		

Seq. No.	45265	Seq. ID	OJ000251_37.0315.C44
Gene No.	95647	Strand	+
Start	18672	End	22801
Name	OJ000251_37.0315.C44.o1.np	Method	AAT/NAP
Start	18672	End	21302
GI	4895170	Score	3552
Exons	18672..18722, 18807..21302		
GI Descrip.	(AC007662) putative plasma membrane proton ATPase [Arabidopsis thaliana]		

Seq. No.	45265	Seq. ID	OJ000251_37.0315.C44
Gene No.	95647	Strand	+
Start	18672	End	22801
Name	OJ000251_37.0315.C44.o6.gs	Method	GENSCAN
Start	18672	End	21365
GI	none	Score	1
Exons	18672..21365		

Seq. No.	45265	Seq. ID	OJ000251_37.0315.C44
Gene No.	95647	Strand	+
Start	18672	End	22801

Name	OJ000251_37.0315.C44.o4.gp	Method	AAT/GAP
Start	19425	End	19856
GI	74241_1.R1084	Score	778
Exons	19425..19856		
GI Descrip.	'4895170/gb AAD32758.1 AC007662_3 4.0e-60 (AC007662) putative plasma membrane ATPase [Arabidopsis thaliana]'		

Seq. No.	45265	Seq. ID	OJ000251_37.0315.C44
Gene No.	95647	Strand	+
Start	18672	End	22801
Name	OJ000251_37.0315.C44.o5.gp	Method	AAT/GAP
Start	21100	End	22801
GI	uC-osflcyp002f09b1	Score	572
Exons	21100..21332, 22730..22801		
GI Descrip.	'2118232/pir  S60301 1.0e-17 aha9 protein - Arabidopsis thaliana'		

Seq. No.	45265	Seq. ID	OJ000251_37.0315.C44
Gene No.	95648	Strand	-
Start	4737	End	5499
Name	OJ000251_37.0315.C44.o3.gs	Method	GENSCAN
Start	4737	End	5499
GI	none	Score	.47
Exons	4737..5076, 5165..5499		

Seq. No.	45265	Seq. ID	OJ000251_37.0315.C44
Gene No.	95649	Strand	-
Start	13778	End	18437
Name	OJ000251_37.0315.C44.o5.gs	Method	GENSCAN
Start	13778	End	18437
GI	none	Score	.82
Exons	13778..14028, 14534..14613, 14798..14966, 14986..15116, 15483..15662, 18340..18437		

Seq. No.	45265	Seq. ID	OJ000251_37.0315.C44
Gene No.	95650	Strand	-
Start	22648	End	23074
Name	OJ000251_37.0315.C44.o7.gs	Method	GENSCAN
Start	22648	End	23074
GI	none	Score	.58
Exons	22648..22687, 22794..23074		

Seq. No.	45265	Seq. ID	OJ000251_37.0315.C44
Gene No.	95651	Strand	-
Start	26869	End	28390
Name	OJ000251_37.0315.C44.o5.ts	Method	TBLASTX:Soybean
Start	7666	End	7962
GI	none	Score	114
Exons	7666..7770, 7876..7962, 7884..7961		

Seq. No.	45265	Seq. ID	OJ000251_37.0315.C44
Gene No.	95651	Strand	-
Start	26869	End	28390
Name	OJ000251_37.0315.C44.o3.tm	Method	TBLASTX:Maize
Start	14790	End	15071
GI	none	Score	180
Exons	14790..14933, 14821..14925, 14873..14932, 14895..14960,		

15018..15071, 15022..15063

Seq. No.	45265	Seq. ID	OJ000251_37.0315.C44
Gene No.	95651	Strand	-
Start	26869	End	28390
Name	OJ000251_37.0315.C44.o3.tc	Method	TBLASTX:Cress
Start	14826	End	15071
GI	none	Score	159
Exons	14826..14933, 14827..14925, 15018..15071, 15018..15059		

Seq. No.	45265	Seq. ID	OJ000251_37.0315.C44
Gene No.	95651	Strand	-
Start	26869	End	28390
Name	OJ000251_37.0315.C44.o4.ts	Method	TBLASTX:Soybean
Start	14826	End	15071
GI	none	Score	176
Exons	14826..14933, 14827..14925, 14881..15000, 15018..15071, 15022..15063		

Seq. No.	45265	Seq. ID	OJ000251_37.0315.C44
Gene No.	95651	Strand	-
Start	26869	End	28390
Name	OJ000251_37.0315.C44.o4.tw	Method	TBLASTX:Wheat
Start	14826	End	15071
GI	none	Score	167
Exons	14826..14933, 14827..14925, 14876..15013, 14881..15012, 14934..14951, 15018..15071, 15018..15059, 15022..15063		

Seq. No.	45265	Seq. ID	OJ000251_37.0315.C44
Gene No.	95651	Strand	-
Start	26869	End	28390
Name	OJ000251_37.0315.C44.o3.ts	Method	TBLASTX:Soybean
Start	18689	End	19220
GI	none	Score	457
Exons	18689..18751, 18810..19220, 18815..19060		

Seq. No.	45265	Seq. ID	OJ000251_37.0315.C44
Gene No.	95651	Strand	-
Start	26869	End	28390
Name	OJ000251_37.0315.C44.o1.tc	Method	TBLASTX:Cress
Start	18809	End	21302
GI	none	Score	2132
Exons	18809..19060, 18810..20381, 19298..19732, 19796..20380, 20385..20558, 20408..20542, 20540..21301, 20541..21302		

Seq. No.	45265	Seq. ID	OJ000251_37.0315.C44
Gene No.	95651	Strand	-
Start	26869	End	28390
Name	OJ000251_37.0315.C44.o1.tm	Method	TBLASTX:Maize
Start	18842	End	21302
GI	none	Score	2066
Exons	18842..19060, 18843..20381, 19292..20380, 20193..20390, 20364..21302, 20408..21301		

Seq. No.	45265	Seq. ID	OJ000251_37.0315.C44
Gene No.	95651	Strand	-
Start	26869	End	28390

Name	OJ000251_37.0315.C44.o2.tw	Method	TBLASTX:Wheat
Start	18957	End	19505
GI	none	Score	65
Exons	18957..19088, 19020..19505, 19152..19349, 19289..19504		
Seq. No.	45265	Seq. ID	OJ000251_37.0315.C44
Gene No.	95651	Strand	-
Start	26869	End	28390
Name	OJ000251_37.0315.C44.o2.ts	Method	TBLASTX:Soybean
Start	19221	End	20045
GI	none	Score	1194
Exons	19221..20045, 19298..19732, 19671..19946, 19796..20044		
Seq. No.	45265	Seq. ID	OJ000251_37.0315.C44
Gene No.	95651	Strand	-
Start	26869	End	28390
Name	OJ000251_37.0315.C44.o3.tw	Method	TBLASTX:Wheat
Start	19506	End	19808
GI	none	Score	426
Exons	19506..19808, 19511..19732, 19674..19808		
Seq. No.	45265	Seq. ID	OJ000251_37.0315.C44
Gene No.	95651	Strand	-
Start	26869	End	28390
Name	OJ000251_37.0315.C44.o1.ts	Method	TBLASTX:Soybean
Start	20046	End	21302
GI	none	Score	468
Exons	20046..20381, 20060..20380, 20193..20390, 20364..21302, 20405..21301		
Seq. No.	45265	Seq. ID	OJ000251_37.0315.C44
Gene No.	95651	Strand	-
Start	26869	End	28390
Name	OJ000251_37.0315.C44.o1.tw	Method	TBLASTX:Wheat
Start	20091	End	21185
GI	none	Score	421
Exons	20091..20381, 20102..20386, 20259..20384, 20364..21185, 20408..21184		
Seq. No.	45265	Seq. ID	OJ000251_37.0315.C44
Gene No.	95651	Strand	-
Start	26869	End	28390
Name	OJ000251_37.0315.C44.o6.gp	Method	AAT/GAP
Start	25092	End	25182
GI	LIB3477-003-P1-K1-E9	Score	110
Exons	25092..25182		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		
Seq. No.	45265	Seq. ID	OJ000251_37.0315.C44
Gene No.	95651	Strand	-
Start	26869	End	28390
Name	OJ000251_37.0315.C44.o2.np	Method	AAT/NAP
Start	26741	End	28390
GI	4314362	Score	583
Exons	26741..27207, 27297..27409, 27684..27795, 28114..28186,		

28296..28390  
 GI Descrip. (AC006340) putative D-amino acid dehydrogenase [Arabidopsis thaliana]

Seq. No.	45265	Seq. ID	OJ000251_37.0315.C44
Gene No.	95651	Strand	-
Start	26869	End	28390
Name	OJ000251_37.0315.C44.o2.tc	Method	TBLASTX:Cress
Start	26750	End	27117
GI	none	Score	40
Exons	26750..26851, 26750..26839, 26754..26876, 26867..27031, 26875..27117, 26899..27105		

Seq. No.	45265	Seq. ID	OJ000251_37.0315.C44
Gene No.	95651	Strand	-
Start	26869	End	28390
Name	OJ000251_37.0315.C44.o2.tm	Method	TBLASTX:Maize
Start	26765	End	27081
GI	none	Score	122
Exons	26765..26839, 26766..26879, 26766..26879, 26767..26892, 26873..27031, 26875..27060, 26875..27081, 26919..27080		

Seq. No.	45265	Seq. ID	OJ000251_37.0315.C44
Gene No.	95651	Strand	-
Start	26869	End	28390
Name	OJ000251_37.0315.C44.o8.gs	Method	GENSCAN
Start	26869	End	28194
GI	none	Score	.89
Exons	26869..27193, 27283..27409, 27684..27795, 28114..28194		

Seq. No.	45266	Seq. ID	OJ000251_37.0315.C45
Gene No.	95652	Strand	-
Start	32	End	362
Name	OJ000251_37.0315.C45.o1.gs	Method	GENSCAN
Start	32	End	362
GI	none	Score	.75
Exons	32..362		

Seq. No.	45267	Seq. ID	OJ000251_37.0315.C52
Gene No.	95653	Strand	-
Start	538	End	693
Name	OJ000251_37.0315.C52.o1.gs	Method	GENSCAN
Start	538	End	693
GI	none	Score	.98
Exons	538..693		

Seq. No.	45268	Seq. ID	OJ000251_37.0315.C55
Gene No.	95654	Strand	+
Start	421	End	439
Name	OJ000251_37.0315.C55.o1.gs	Method	GENSCAN
Start	421	End	439
GI	none	Score	.45
Exons	421..439		

Seq. No.	45269	Seq. ID	OJ000251_37.0315.C73
Gene No.	95655	Strand	+
Start	1	End	806

Name	OJ000251_37.0315.C73.ol.np	Method	AAT/NAP
Start	1	End	806
GI	4006886	Score	294
Exons	1..152, 241..303, 427..542, 759..806		
GI Descrip.	(Z99708) putative protein [Arabidopsis thaliana]		

Seq. No.	45269	Seq. ID	OJ000251_37.0315.C73
Gene No.	95655	Strand	+
Start	1	End	806
Name	OJ000251_37.0315.C73.ol.tc	Method	TBLASTX:Cress
Start	2	End	149
GI	none	Score	177
Exons	2..127, 3..149		

Seq. No.	45269	Seq. ID	OJ000251_37.0315.C73
Gene No.	95655	Strand	+
Start	1	End	806
Name	OJ000251_37.0315.C73.ol.ts	Method	TBLASTX:Soybean
Start	2	End	492
GI	none	Score	222
Exons	2..148, 3..149, 7..159, 9..149, 234..302, 234..323, 241..306, 448..492		

Seq. No.	45269	Seq. ID	OJ000251_37.0315.C73
Gene No.	95655	Strand	+
Start	1	End	806
Name	OJ000251_37.0315.C73.ol.tm	Method	TBLASTX:Maize
Start	2	End	551
GI	none	Score	192
Exons	2..151, 3..146, 4..147, 235..306, 240..323, 427..543, 427..543, 450..551		

Seq. No.	45269	Seq. ID	OJ000251_37.0315.C73
Gene No.	95655	Strand	+
Start	1	End	806
Name	OJ000251_37.0315.C73.ol.gs	Method	GENSCAN
Start	12	End	542
GI	none	Score	.75
Exons	12..152, 427..542		

Seq. No.	45269	Seq. ID	OJ000251_37.0315.C73
Gene No.	95655	Strand	+
Start	1	End	806
Name	OJ000251_37.0315.C73.ol.gp	Method	AAT/GAP
Start	227	End	542
GI	42003 1.R1084	Score	288
Exons	227..303, 427..542		
GI Descrip.	'4006886/emb CAB16816.1 '7.0e-62 (Z99708) putative protein [Arabidopsis thaliana]'		

Seq. No.	45270	Seq. ID	OJ000251_37.0315.C78
Gene No.	95656	Strand	+
Start	1	End	1108
Name	OJ000251_37.0315.C78.ol.np	Method	AAT/NAP
Start	1	End	1103
GI	4263522	Score	1001
Exons	1..1103		

GI Descrip. (AC004044) hypothetical protein [Arabidopsis thaliana]

Seq. No.	45270	Seq. ID	OJ000251_37.0315.C78
Gene No.	95656	Strand	+
Start	1	End	1108
Name	OJ000251_37.0315.C78.o1.tm	Method	TBLASTX:Maize
Start	7	End	800
GI	none	Score	181
Exons	7..309, 7..798, 12..209, 13..276, 103..288, 105..206, 432..800		

Seq. No.	45270	Seq. ID	OJ000251_37.0315.C78
Gene No.	95656	Strand	+
Start	1	End	1108
Name	OJ000251_37.0315.C78.o1.tw	Method	TBLASTX:Wheat
Start	7	End	408
GI	none	Score	289
Exons	7..408, 12..206, 315..392		

Seq. No.	45270	Seq. ID	OJ000251_37.0315.C78
Gene No.	95656	Strand	+
Start	1	End	1108
Name	OJ000251_37.0315.C78.o2.tc	Method	TBLASTX:Cress
Start	7	End	576
GI	none	Score	231
Exons	7..447, 163..321, 193..423, 445..543, 451..576		

Seq. No.	45270	Seq. ID	OJ000251_37.0315.C78
Gene No.	95656	Strand	+
Start	1	End	1108
Name	OJ000251_37.0315.C78.o3.ts	Method	TBLASTX:Soybean
Start	7	End	246
GI	none	Score	226
Exons	7..246, 12..212, 37..240		

Seq. No.	45270	Seq. ID	OJ000251_37.0315.C78
Gene No.	95656	Strand	+
Start	1	End	1108
Name	OJ000251_37.0315.C78.o1.gs	Method	GENSCAN
Start	118	End	816
GI	none	Score	.93
Exons	118..816		

Seq. No.	45270	Seq. ID	OJ000251_37.0315.C78
Gene No.	95656	Strand	+
Start	1	End	1108
Name	OJ000251_37.0315.C78.o1.ts	Method	TBLASTX:Soybean
Start	286	End	795
GI	none	Score	433
Exons	286..795, 319..792, 435..794		

Seq. No.	45270	Seq. ID	OJ000251_37.0315.C78
Gene No.	95656	Strand	+
Start	1	End	1108
Name	OJ000251_37.0315.C78.o1.tc	Method	TBLASTX:Cress
Start	586	End	1108
GI	none	Score	191
Exons	586..807, 612..758, 812..1105, 813..1106, 905..1108, 978..1106		

Seq. No.	45270	Seq. ID	OJ000251_37.0315.C78
Gene No.	95656	Strand	+
Start	1	End	1108
Name	OJ000251_37.0315.C78.o2.ts	Method	TBLASTX:Soybean
Start	812	End	1107
GI	none	Score	50
Exons	812..928, 813..1106, 824..1105, 982..1107		

Seq. No.	45270	Seq. ID	OJ000251_37.0315.C78
Gene No.	95656	Strand	+
Start	1	End	1108
Name	OJ000251_37.0315.C78.o2.tm	Method	TBLASTX:Maize
Start	816	End	1106
GI	none	Score	322
Exons	816..1106, 899..1105		

Seq. No.	45271	Seq. ID	OJ000251_37.0315.C82
Gene No.	95657	Strand	-
Start	297	End	656
Name	OJ000251_37.0315.C82.o1.gs	Method	GENSCAN
Start	297	End	656
GI	none	Score	.54
Exons	297..365, 552..656		

Seq. No.	45272	Seq. ID	OJ000251_31.0310.C3
Gene No.	95659	Strand	-
Start	112	End	1102
Name	OJ000251_31.0310.C3.o1.np	Method	AAT/NAP
Start	112	End	1102
GI	6705984	Score	1218
Exons	112..1102		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	45272	Seq. ID	OJ000251_31.0310.C3
Gene No.	95659	Strand	-
Start	112	End	1102
Name	OJ000251_31.0310.C3.o2.tm	Method	TBLASTX:Maize
Start	140	End	378
GI	none	Score	140
Exons	140..352, 148..378		

Seq. No.	45272	Seq. ID	OJ000251_31.0310.C3
Gene No.	95659	Strand	-
Start	112	End	1102
Name	OJ000251_31.0310.C3.o2.tw	Method	TBLASTX:Wheat
Start	298	End	696
GI	none	Score	89
Exons	298..489, 299..475, 436..696, 489..575, 503..694, 532..696		

Seq. No.	45272	Seq. ID	OJ000251_31.0310.C3
Gene No.	95659	Strand	-
Start	112	End	1102
Name	OJ000251_31.0310.C3.o3.tm	Method	TBLASTX:Maize
Start	535	End	828
GI	none	Score	46
Exons	535..828, 536..625, 728..820		



Seq. No.	45272	Seq. ID	OJ000251_31.0310.C3
Gene No.	95659	Strand	-
Start	112	End	1102
Name	OJ000251_31.0310.C3.o1.tw	Method	TBLASTX:Wheat
Start	727	End	1086
GI	none	Score	244
Exons	727..1086, 728..1069, 739..1083		

Seq. No.	45272	Seq. ID	OJ000251_31.0310.C3
Gene No.	95659	Strand	-
Start	112	End	1102
Name	OJ000251_31.0310.C3.o1.tm	Method	TBLASTX:Maize
Start	831	End	1100
GI	none	Score	235
Exons	831..1067, 835..1098, 836..1099, 843..1100		

Seq. No.	45272	Seq. ID	OJ000251_31.0310.C3
Gene No.	95659	Strand	-
Start	112	End	1102
Name	OJ000251_31.0310.C3.o1.tc	Method	TBLASTX:Cress
Start	898	End	1099
GI	none	Score	170
Exons	898..1098, 899..1099		

Seq. No.	45273	Seq. ID	OJ000251_31.0310.C8
Gene No.	95660	Strand	+
Start	4154	End	4530
Name	OJ000251_31.0310.C8.o1.gp	Method	AAT/GAP
Start	4154	End	4530
GI	2427387	Score	632
Exons	4154..4530		
GI Descrip.	5852170/emb AL117265.1 OST17804 3.0e-94 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:tl7804		

Seq. No.	45273	Seq. ID	OJ000251_31.0310.C8
Gene No.	95661	Strand	+
Start	7187	End	8242
Name	OJ000251_31.0310.C8.o2.gs	Method	GENSCAN
Start	7187	End	8242
GI	none	Score	.85
Exons	7187..7271, 7732..7843, 8137..8242		

Seq. No.	45273	Seq. ID	OJ000251_31.0310.C8
Gene No.	95662	Strand	+
Start	12046	End	18127
Name	OJ000251_31.0310.C8.o4.gs	Method	GENSCAN
Start	12046	End	14159
GI	none	Score	.49
Exons	12046..12115, 12931..12960, 13032..13138, 13492..13732, 14062..14159		

Seq. No.	45273	Seq. ID	OJ000251_31.0310.C8
Gene No.	95662	Strand	+
Start	12046	End	18127
Name	OJ000251_31.0310.C8.o2.np	Method	AAT/NAP
Start	13560	End	18127

GI 5852175 Score 76  
 Exons 13560..13773, 14632..14738, 18099..18127  
 GI Descrip. (AL117265) zhb0005.1 [Oryza sativa]

Seq. No. 45273 Seq. ID OJ000251\_31.0310.C8  
 Gene No. 95662 Strand +  
 Start 12046 End 18127  
 Name OJ000251\_31.0310.C8.o2.gp Method AAT/GAP  
 Start 15880 End 16228  
 GI LIB3431-054-P1-N1-H2 Score 642  
 Exons 15880..16228  
 GI Descrip. '5852170/emb|AL117265.1|OST17804 3.0e-94 Oryza sativa  
 indica(GLA4) genomic DNA, chromosome 4, BAC clone:tl7804'

Seq. No. 45273 Seq. ID OJ000251\_31.0310.C8  
 Gene No. 95663 Strand -  
 Start 1 End 5944  
 Name OJ000251\_31.0310.C8.o1.np Method AAT/NAP  
 Start 1 End 5827  
 GI 6705984 Score 1884  
 Exons 1..2438, 3225..3336, 3911..4068, 5655..5827  
 GI Descrip. (AB033235) gag-pol polyprotein [Oryza sativa]

Seq. No. 45273 Seq. ID OJ000251\_31.0310.C8  
 Gene No. 95663 Strand -  
 Start 1 End 5944  
 Name OJ000251\_31.0310.C8.o1.gs Method GENSCAN  
 Start 36 End 5944  
 GI none Score .45  
 Exons 36..527, 958..1790, 2028..2501, 3003..3145, 3176..3372,  
 3374..3732, 5548..5944

Seq. No. 45273 Seq. ID OJ000251\_31.0310.C8  
 Gene No. 95664 Strand -  
 Start 9146 End 11320  
 Name OJ000251\_31.0310.C8.o3.gs Method GENSCAN  
 Start 9146 End 11320  
 GI none Score .72  
 Exons 9146..9348, 9391..9497, 9534..9627, 9721..9755, 10258..10269,  
 10903..11121, 11205..11320

Seq. No. 45273 Seq. ID OJ000251\_31.0310.C8  
 Gene No. 95665 Strand -  
 Start 16162 End 17518  
 Name OJ000251\_31.0310.C8.o5.gs Method GENSCAN  
 Start 16162 End 17518  
 GI none Score .46  
 Exons 16162..16224, 17486..17518

Seq. No. 45273 Seq. ID OJ000251\_31.0310.C8  
 Gene No. 95665 Strand -  
 Start 16162 End 17518  
 Name OJ000251\_31.0310.C8.o3.gp Method AAT/GAP  
 Start 16335 End 16765  
 GI none Score 807  
 Exons 16335..16765

Seq. No.	45273	Seq. ID	OJ000251_31.0310.C8
Gene No.	95666	Strand	-
Start	19714	End	19938
Name	OJ000251_31.0310.C8.o1.tm	Method	TBLASTX:Maize
Start	153	End	621
GI	none	Score	124
Exons	153..620, 172..417, 246..530, 499..621		

Seq. No.	45273	Seq. ID	OJ000251_31.0310.C8
Gene No.	95666	Strand	-
Start	19714	End	19938
Name	OJ000251_31.0310.C8.o1.tw	Method	TBLASTX:Wheat
Start	207	End	689
GI	none	Score	176
Exons	207..689, 211..609		

Seq. No.	45273	Seq. ID	OJ000251_31.0310.C8
Gene No.	95666	Strand	-
Start	19714	End	19938
Name	OJ000251_31.0310.C8.o2.tm	Method	TBLASTX:Maize
Start	1027	End	1254
GI	none	Score	94
Exons	1027..1254, 1100..1216		

Seq. No.	45273	Seq. ID	OJ000251_31.0310.C8
Gene No.	95666	Strand	-
Start	19714	End	19938
Name	OJ000251_31.0310.C8.o2.ts	Method	TBLASTX:Soybean
Start	1048	End	1398
GI	none	Score	63
Exons	1048..1179, 1106..1180, 1181..1297, 1183..1314, 1183..1398		

Seq. No.	45273	Seq. ID	OJ000251_31.0310.C8
Gene No.	95666	Strand	-
Start	19714	End	19938
Name	OJ000251_31.0310.C8.o3.tw	Method	TBLASTX:Wheat
Start	1129	End	1497
GI	none	Score	93
Exons	1129..1497, 1130..1297, 1319..1393		

Seq. No.	45273	Seq. ID	OJ000251_31.0310.C8
Gene No.	95666	Strand	-
Start	19714	End	19938
Name	OJ000251_31.0310.C8.o2.tw	Method	TBLASTX:Wheat
Start	1888	End	2286
GI	none	Score	103
Exons	1888..2064, 1901..2062, 1912..2064, 2068..2286, 2069..2212, 2071..2286		

Seq. No.	45273	Seq. ID	OJ000251_31.0310.C8
Gene No.	95666	Strand	-
Start	19714	End	19938
Name	OJ000251_31.0310.C8.o1.ts	Method	TBLASTX:Soybean
Start	2020	End	2422
GI	none	Score	101
Exons	2020..2286, 2020..2421, 2063..2422		

Seq. No.	45273	Seq. ID	OJ000251_31.0310.C8
Gene No.	95666	Strand	-
Start	19714	End	19938
Name	OJ000251_31.0310.C8.o3.np	Method	AAT/NAP
Start	19714	End	19938
GI	6010049	Score	44
Exons	19714..19938		
GI Descrip.	(AJ245711) teneurin-2 protein [Gallus gallus]		

Seq. No.	45274	Seq. ID	OJ000251_31.0310.C9
Gene No.	95667	Strand	-
Start	1854	End	3466
Name	OJ000251_31.0310.C9.o1.np	Method	AAT/NAP
Start	1854	End	3466
GI	5257268	Score	333
Exons	1854..1962, 2056..2196, 2238..2486, 3433..3466		
GI Descrip.	(AP000364) Similar to putative SEC14 cytosolic factor. (Q10137) [Oryza sativa]		

Seq. No.	45274	Seq. ID	OJ000251_31.0310.C9
Gene No.	95667	Strand	-
Start	1854	End	3466
Name	OJ000251_31.0310.C9.o1.ts	Method	TBLASTX:Soybean
Start	1855	End	2363
GI	none	Score	70
Exons	1855..1956, 2059..2166, 2105..2167, 2238..2363		

Seq. No.	45274	Seq. ID	OJ000251_31.0310.C9
Gene No.	95667	Strand	-
Start	1854	End	3466
Name	OJ000251_31.0310.C9.o1.gp	Method	AAT/GAP
Start	2873	End	3205
GI	none	Score	597
Exons	2873..3205		

Seq. No.	45275	Seq. ID	OJ000251_31.0310.C10
Gene No.	95668	Strand	-
Start	773	End	1978
Name	OJ000251_31.0310.C10.o1.gs	Method	GENSCAN
Start	773	End	1978
GI	none	Score	.9
Exons	773..903, 1492..1978		

Seq. No.	45276	Seq. ID	OJ000251_31.0310.C11
Gene No.	95669	Strand	-
Start	369	End	1858
Name	OJ000251_31.0310.C11.o1.gs	Method	GENSCAN
Start	369	End	1858
GI	none	Score	.54
Exons	369..661, 722..939, 987..1858		

Seq. No.	45276	Seq. ID	OJ000251_31.0310.C11
Gene No.	95670	Strand	-
Start	2408	End	4424
Name	OJ000251_31.0310.C11.o2.gs	Method	GENSCAN
Start	2408	End	4424
GI	none	Score	.41

Exons 2408..2582, 4011..4097, 4330..4424

Seq. No.	45276	Seq. ID	OJ000251_31.0310.C11
Gene No.	95671	Strand	-
Start	5166	End	5730
Name	OJ000251_31.0310.C11.o3.gs	Method	GENSCAN
Start	5166	End	5730
GI	none	Score	.8
Exons	5166..5244, 5459..5730		

Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95672	Strand	+
Start	242	End	3469
Name	OJ000251_31.0310.C12.o1.gs	Method	GENSCAN
Start	242	End	3469
GI	none	Score	.61
Exons	242..310, 396..536, 538..684, 2879..2933, 3296..3410, 3455..3469		

Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95672	Strand	+
Start	242	End	3469
Name	OJ000251_31.0310.C12.o1.gp	Method	AAT/GAP
Start	410	End	806
GI	3763172	Score	782
Exons	410..806		

Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95673	Strand	+
Start	4678	End	6846
Name	OJ000251_31.0310.C12.o2.gp	Method	AAT/GAP
Start	4646	End	5038
GI	uC-osflcyp073g10b1	Score	672
Exons	4646..5038		
GI Descrip.	'5902380/gb AAD55482.1 AC009322_22 3.0e-16 (AC009322) Hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95673	Strand	+
Start	4678	End	6846
Name	OJ000251_31.0310.C12.o2.gs	Method	GENSCAN
Start	4678	End	6846
GI	none	Score	.99
Exons	4678..6846		

Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95673	Strand	+
Start	4678	End	6846
Name	OJ000251_31.0310.C12.o1.np	Method	AAT/NAP
Start	4684	End	6840
GI	6735290	Score	1493
Exons	4684..6385, 6443..6840		
GI Descrip.	(AL137079) putative transposase [Arabidopsis thaliana]		

Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95673	Strand	+
Start	4678	End	6846
Name	OJ000251_31.0310.C12.o3.gp	Method	AAT/GAP

Start	5346	End	5688
GI	426036	Score	631
Exons	5346..5688		
GI Descrip.	5902380/gb AAD55482.1 AC009322_22 7.0e-18 (AC009322) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95673	Strand	+
Start	4678	End	6846
Name	OJ000251_31.0310.C12.o4.gp	Method	AAT/GAP
Start	5891	End	6225
GI	LIB3433-032-P1-K1-F4	Score	607
Exons	5891..6225		
GI Descrip.	'5902380/gb AAD55482.1 AC009322_22 7.0e-18 (AC009322) Hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95674	Strand	+
Start	12430	End	17724
Name	OJ000251_31.0310.C12.o2.np	Method	AAT/NAP
Start	12430	End	14491
GI	6466937	Score	373
Exons	12430..13677, 14381..14491		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95674	Strand	+
Start	12430	End	17724
Name	OJ000251_31.0310.C12.o3.np	Method	AAT/NAP
Start	13089	End	17724
GI	6063554	Score	292
Exons	13089..13137, 15948..16193, 16319..16628, 17561..17724		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95675	Strand	+
Start	19073	End	20535
Name	OJ000251_31.0310.C12.o4.np	Method	AAT/NAP
Start	19073	End	20535
GI	5852176	Score	57
Exons	19073..19254, 20502..20535		
GI Descrip.	(AL117265) zhb0006.1 [Oryza sativa]		

Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95676	Strand	+
Start	20869	End	22439
Name	OJ000251_31.0310.C12.o5.gs	Method	GENSCAN
Start	20869	End	22439
GI	none	Score	.7
Exons	20869..20946, 21782..21814, 22104..22439		

Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95677	Strand	-
Start	6601	End	7118

Name	OJ000251_31.0310.C12.o5.gp	Method	AAT/GAP
Start	6601	End	7118
GI	none	Score	824
Exons	6601..7118		
Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95678	Strand	-
Start	7833	End	14883
Name	OJ000251_31.0310.C12.o3.gs	Method	GENSCAN
Start	7833	End	14883
GI	none	Score	.67
Exons	7833..8411, 8698..10219, 11906..12103, 14046..14101, 14698..14883		
Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95679	Strand	-
Start	16297	End	18188
Name	OJ000251_31.0310.C12.o4.gs	Method	GENSCAN
Start	16297	End	18188
GI	none	Score	.85
Exons	16297..16591, 16627..16743, 18103..18188		
Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95680	Strand	-
Start	18105	End	18412
Name	OJ000251_31.0310.C12.o6.gp	Method	AAT/GAP
Start	18105	End	18412
GI	61605_3.R1084	Score	445
Exons	18105..18412		
GI Descrip.	'1402920/emb CAA66965  2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		
Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95681	Strand	-
Start	19535	End	21843
Name	OJ000251_31.0310.C12.o5.np	Method	AAT/NAP
Start	19535	End	21843
GI	6721512	Score	106
Exons	19535..19585, 20996..21032, 21075..21212, 21240..21355, 21756..21843		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		
Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95682	Strand	-
Start	23161	End	26531
Name	OJ000251_31.0310.C12.o2.tm	Method	TBLASTX:Maize
Start	4756	End	5127
GI	none	Score	61
Exons	4756..4815, 4806..4859, 4807..4881, 4864..5127, 4875..5063		
Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95682	Strand	-
Start	23161	End	26531
Name	OJ000251_31.0310.C12.o4.ts	Method	TBLASTX:Soybean
Start	4861	End	5081
GI	none	Score	203
Exons	4861..5034, 4872..5027, 4875..5081, 4876..5034, 4877..5035		

Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95682	Strand	-
Start	23161	End	26531
Name	OJ000251_31.0310.C12.o2.tc	Method	TBLASTX:Cress
Start	4863	End	5262
GI	none	Score	222
Exons	4863..5063, 4864..5043, 4958..5059, 5147..5245, 5155..5244, 5161..5262		

Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95682	Strand	-
Start	23161	End	26531
Name	OJ000251_31.0310.C12.o3.tm	Method	TBLASTX:Maize
Start	5127	End	5397
GI	none	Score	373
Exons	5127..5396, 5128..5397		

Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95682	Strand	-
Start	23161	End	26531
Name	OJ000251_31.0310.C12.o2.ts	Method	TBLASTX:Soybean
Start	5191	End	5610
GI	none	Score	377
Exons	5191..5610, 5193..5591		

Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95682	Strand	-
Start	23161	End	26531
Name	OJ000251_31.0310.C12.o3.tc	Method	TBLASTX:Cress
Start	5263	End	5613
GI	none	Score	255
Exons	5263..5475, 5266..5613, 5313..5591		

Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95682	Strand	-
Start	23161	End	26531
Name	OJ000251_31.0310.C12.o1.tm	Method	TBLASTX:Maize
Start	5398	End	6791
GI	none	Score	1566
Exons	5398..6459, 5398..6399, 5676..6407, 6402..6791, 6403..6789		

Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95682	Strand	-
Start	23161	End	26531
Name	OJ000251_31.0310.C12.o1.ts	Method	TBLASTX:Soybean
Start	5665	End	6402
GI	none	Score	629
Exons	5665..6294, 5703..6293, 5884..6342, 6284..6346, 6343..6402		

Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95682	Strand	-
Start	23161	End	26531
Name	OJ000251_31.0310.C12.o3.tw	Method	TBLASTX:Wheat
Start	5686	End	5949
GI	none	Score	189
Exons	5686..5949, 5766..5930		



Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95682	Strand	-
Start	23161	End	26531
Name	OJ000251_31.0310.C12.o1.tc	Method	TBLASTX:Cress
Start	5758	End	6216
GI	none	Score	442
Exons	5758..6216, 5766..6215		

Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95682	Strand	-
Start	23161	End	26531
Name	OJ000251_31.0310.C12.o1.tw	Method	TBLASTX:Wheat
Start	5950	End	6345
GI	none	Score	551
Exons	5950..6345, 5951..6223, 5979..6293, 6284..6340		

Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95682	Strand	-
Start	23161	End	26531
Name	OJ000251_31.0310.C12.o2.tw	Method	TBLASTX:Wheat
Start	6346	End	6543
GI	none	Score	261
Exons	6346..6543, 6348..6542		

Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95682	Strand	-
Start	23161	End	26531
Name	OJ000251_31.0310.C12.o4.tc	Method	TBLASTX:Cress
Start	6462	End	6663
GI	none	Score	43
Exons	6462..6500, 6463..6498, 6505..6663, 6519..6656		

Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95682	Strand	-
Start	23161	End	26531
Name	OJ000251_31.0310.C12.o3.ts	Method	TBLASTX:Soybean
Start	6507	End	6789
GI	none	Score	206
Exons	6507..6665, 6520..6663, 6700..6789		

Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95682	Strand	-
Start	23161	End	26531
Name	OJ000251_31.0310.C12.o4.tm	Method	TBLASTX:Maize
Start	12609	End	13017
GI	none	Score	118
Exons	12609..12743, 12752..12784, 12817..13017, 12864..13016		

Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95682	Strand	-
Start	23161	End	26531
Name	OJ000251_31.0310.C12.o5.tm	Method	TBLASTX:Maize
Start	13024	End	13674
GI	none	Score	61
Exons	13024..13167, 13260..13469, 13495..13674		

Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95682	Strand	-
Start	23161	End	26531
Name	OJ000251_31.0310.C12.o6.gs	Method	GENSCAN
Start	23161	End	25898
GI	none	Score	.64
Exons	23161..23260, 23410..23439, 23872..23931, 25227..25485, 25620..25666, 25668..25760, 25885..25898		

Seq. No.	45277	Seq. ID	OJ000251_31.0310.C12
Gene No.	95682	Strand	-
Start	23161	End	26531
Name	OJ000251_31.0310.C12.o6.np	Method	AAT/NAP
Start	25234	End	26531
GI	7452410	Score	72
Exons	25234..25408, 26501..26531		
GI Descrip.	hypothetical protein dl3180w - Arabidopsis thaliana gi 2244784 emb CAB10207.1  (Z97335) hypothetical protein [Arabidopsis thaliana] gi 7268133 emb CAB78470.1  (AL161538) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45278	Seq. ID	OJ000251_31.0310.C13
Gene No.	95683	Strand	+
Start	6018	End	11784
Name	OJ000251_31.0310.C13.o1.gp	Method	AAT/GAP
Start	5906	End	6408
GI	uC-osflcyp111f06b1	Score	1006
Exons	5906..6408		
GI Descrip.	'4972097/emb CAB43893.1  1.0e-16 (AL078468) putative protein [Arabidopsis thaliana]'		

Seq. No.	45278	Seq. ID	OJ000251_31.0310.C13
Gene No.	95683	Strand	+
Start	6018	End	11784
Name	OJ000251_31.0310.C13.o3.gs	Method	GENSCAN
Start	6018	End	11784
GI	none	Score	.64
Exons	6018..6712, 7119..7326, 9312..9385, 9410..9549, 10469..10668, 11115..11153, 11659..11784		

Seq. No.	45278	Seq. ID	OJ000251_31.0310.C13
Gene No.	95683	Strand	+
Start	6018	End	11784
Name	OJ000251_31.0310.C13.o2.np	Method	AAT/NAP
Start	6048	End	6515
GI	6633834	Score	285
Exons	6048..6515		
GI Descrip.	(AC009519) F1N19.3 [Arabidopsis thaliana]		

Seq. No.	45278	Seq. ID	OJ000251_31.0310.C13
Gene No.	95683	Strand	+
Start	6018	End	11784
Name	OJ000251_31.0310.C13.o3.np	Method	AAT/NAP
Start	6048	End	6766
GI	6633834	Score	302
Exons	6048..6506, 6710..6766		
GI Descrip.	(AC009519) F1N19.3 [Arabidopsis thaliana]		

Seq. No.	45278	Seq. ID	OJ000251_31.0310.C13
Gene No.	95683	Strand	+
Start	6018	End	11784
Name	OJ000251_31.0310.C13.o2.gp	Method	AAT/GAP
Start	6829	End	7081
GI	none	Score	450
Exons	6829..7081		

Seq. No.	45278	Seq. ID	OJ000251_31.0310.C13
Gene No.	95684	Strand	-
Start	1089	End	2110
Name	OJ000251_31.0310.C13.o1.gs	Method	GENSCAN
Start	1089	End	2110
GI	none	Score	.79
Exons	1089..1174, 1709..1762, 1890..2110		

Seq. No.	45278	Seq. ID	OJ000251_31.0310.C13
Gene No.	95685	Strand	-
Start	2972	End	5121
Name	OJ000251_31.0310.C13.o2.gs	Method	GENSCAN
Start	2972	End	5121
GI	none	Score	.74
Exons	2972..3073, 3751..3843, 4711..5121		

Seq. No.	45278	Seq. ID	OJ000251_31.0310.C13
Gene No.	95685	Strand	-
Start	2972	End	5121
Name	OJ000251_31.0310.C13.o1.np	Method	AAT/NAP
Start	3220	End	4348
GI	6630696	Score	844
Exons	3220..3877, 4219..4348		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	45278	Seq. ID	OJ000251_31.0310.C13
Gene No.	95686	Strand	-
Start	12203	End	17393
Name	OJ000251_31.0310.C13.o1.tw	Method	TBLASTX:Wheat
Start	3351	End	3796
GI	none	Score	178
Exons	3351..3509, 3353..3496, 3389..3511, 3501..3638, 3501..3641, 3502..3651, 3526..3645, 3638..3721, 3643..3735, 3643..3735, 3767..3796		

Seq. No.	45278	Seq. ID	OJ000251_31.0310.C13
Gene No.	95686	Strand	-
Start	12203	End	17393
Name	OJ000251_31.0310.C13.o2.ts	Method	TBLASTX:Soybean
Start	6168	End	6410
GI	none	Score	275
Exons	6168..6410, 6188..6409		

Seq. No.	45278	Seq. ID	OJ000251_31.0310.C13
Gene No.	95686	Strand	-
Start	12203	End	17393

Name	OJ000251_31.0310.C13.o1.tm	Method	TBLASTX:Maize
Start	12192	End	16833
GI	none	Score	524
Exons	12192..12563, 12192..12353, 12203..12562, 12241..12564, 12397..12564, 12624..13034, 12643..13032, 12650..13033, 16746..16829, 16773..16832, 16774..16833		
Seq. No.	45278	Seq. ID	OJ000251_31.0310.C13
Gene No.	95686	Strand	-
Start	12203	End	17393
Name	OJ000251_31.0310.C13.o1.ts	Method	TBLASTX:Soybean
Start	12203	End	13061
GI	none	Score	404
Exons	12203..12253, 12230..12562, 12231..12563, 12414..12566, 12642..13061, 12643..13059		
Seq. No.	45278	Seq. ID	OJ000251_31.0310.C13
Gene No.	95686	Strand	-
Start	12203	End	17393
Name	OJ000251_31.0310.C13.o4.gs	Method	GENSCAN
Start	12203	End	17393
GI	none	Score	.86
Exons	12203..12562, 12645..13031, 14474..14522, 16516..16667, 16773..17393		
Seq. No.	45278	Seq. ID	OJ000251_31.0310.C13
Gene No.	95686	Strand	-
Start	12203	End	17393
Name	OJ000251_31.0310.C13.o4.np	Method	AAT/NAP
Start	12209	End	17278
GI	6850870	Score	1320
Exons	12209..12562, 12645..13031, 16773..16885, 17205..17278		
GI Descrip.	(AL132959) seven in absentia-like protein [Arabidopsis thaliana]		
Seq. No.	45278	Seq. ID	OJ000251_31.0310.C13
Gene No.	95686	Strand	-
Start	12203	End	17393
Name	OJ000251_31.0310.C13.o1.tc	Method	TBLASTX:Cress
Start	12233	End	12768
GI	none	Score	173
Exons	12233..12265, 12374..12562, 12374..12562, 12378..12563, 12642..12767, 12642..12767, 12643..12768		
Seq. No.	45278	Seq. ID	OJ000251_31.0310.C13
Gene No.	95686	Strand	-
Start	12203	End	17393
Name	OJ000251_31.0310.C13.o2.tc	Method	TBLASTX:Cress
Start	12769	End	12984
GI	none	Score	203
Exons	12769..12984, 12771..12983		
Seq. No.	45279	Seq. ID	OJ000251_31.0310.C14
Gene No.	95687	Strand	+
Start	836	End	1392
Name	OJ000251_31.0310.C14.o1.gs	Method	GENSCAN
Start	836	End	1392
GI	none	Score	.62

Exons 836..1171, 1257..1392

Seq. No.	45279	Seq. ID	OJ000251_31.0310.C14
Gene No.	95688	Strand	+
Start	1435	End	2455
Name	OJ000251_31.0310.C14.o1.np	Method	AAT/NAP
Start	1435	End	2455
GI	7106516	Score	197
Exons	1435..1488, 2226..2455		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	45279	Seq. ID	OJ000251_31.0310.C14
Gene No.	95689	Strand	-
Start	1474	End	1703
Name	OJ000251_31.0310.C14.o2.gs	Method	GENSCAN
Start	1474	End	1703
GI	none	Score	.65
Exons	1474..1703		

Seq. No.	45280	Seq. ID	OJ000251_31.0310.C15
Gene No.	95690	Strand	-
Start	398	End	1668
Name	OJ000251_31.0310.C15.o1.gs	Method	GENSCAN
Start	398	End	1668
GI	none	Score	.76
Exons	398..474, 1477..1668		

Seq. No.	45281	Seq. ID	OJ000251_31.0310.C16
Gene No.	95691	Strand	+
Start	214	End	6954
Name	OJ000251_31.0310.C16.o1.gs	Method	GENSCAN
Start	214	End	6954
GI	none	Score	.81
Exons	214..276, 1306..1344, 2276..2351, 3019..3067, 3190..3406, 3892..3978, 4073..4085, 4482..4588, 4893..6066, 6494..6585, 6692..6760, 6856..6954		

Seq. No.	45281	Seq. ID	OJ000251_31.0310.C16
Gene No.	95691	Strand	+
Start	214	End	6954
Name	OJ000251_31.0310.C16.o2.np	Method	AAT/NAP
Start	4968	End	6951
GI	2576361	Score	1321
Exons	4968..6066, 6494..6585, 6692..6764, 6860..6951		
GI Descrip.	(U39782) lysine and histidine specific transporter [Arabidopsis thaliana]		

Seq. No.	45281	Seq. ID	OJ000251_31.0310.C16
Gene No.	95692	Strand	+
Start	9756	End	10018
Name	OJ000251_31.0310.C16.o1.gp	Method	AAT/GAP
Start	9756	End	10018
GI	61605_3.R1084	Score	437
Exons	9756..10018		
GI Descrip.	'1402920/emb CAA66965  2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	45281	Seq. ID	OJ000251_31.0310.C16
Gene No.	95693	Strand	-
Start	120	End	2313
Name	OJ000251_31.0310.C16.o1.np	Method	AAT/NAP
Start	120	End	2313
GI	7340909	Score	206
Exons	120..353, 441..705, 2216..2313		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	45281	Seq. ID	OJ000251_31.0310.C16
Gene No.	95694	Strand	-
Start	10544	End	10981
Name	OJ000251_31.0310.C16.o2.gp	Method	AAT/GAP
Start	10544	End	10981
GI	2428185	Score	577
Exons	10544..10981		
GI Descrip.	5852170/emb AL117265.1 OST17804 1.0e-177 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	45281	Seq. ID	OJ000251_31.0310.C16
Gene No.	95695	Strand	-
Start	11004	End	11733
Name	OJ000251_31.0310.C16.o3.gp	Method	AAT/GAP
Start	11004	End	11733
GI	101153_1.R1084	Score	410
Exons	11004..11227, 11699..11733		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-115 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	45281	Seq. ID	OJ000251_31.0310.C16
Gene No.	95696	Strand	-
Start	14184	End	15686
Name	OJ000251_31.0310.C16.o3.np	Method	AAT/NAP
Start	14184	End	15686
GI	6630696	Score	2476
Exons	14184..15686		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	45281	Seq. ID	OJ000251_31.0310.C16
Gene No.	95696	Strand	-
Start	14184	End	15686
Name	OJ000251_31.0310.C16.o4.np	Method	AAT/NAP
Start	14184	End	15684
GI	6630696	Score	2475
Exons	14184..15684		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	45281	Seq. ID	OJ000251_31.0310.C16
Gene No.	95697	Strand	-
Start	15693	End	15764
Name	OJ000251_31.0310.C16.o1.tc	Method	TBLASTX:Cress
Start	5034	End	5594
GI	none	Score	305

Exons	5034..5255, 5051..5206, 5258..5422, 5259..5423, 5433..5594		
Seq. No.	45281	Seq. ID	OJ000251_31.0310.C16
Gene No.	95697	Strand	-
Start	15693	End	15764
Name	OJ000251_31.0310.C16.o4.tm	Method	TBLASTX:Maize
Start	5037	End	5306
GI	none	Score	268
Exons	5037..5255, 5051..5206, 5258..5305, 5259..5306		
Seq. No.	45281	Seq. ID	OJ000251_31.0310.C16
Gene No.	95697	Strand	-
Start	15693	End	15764
Name	OJ000251_31.0310.C16.o6.ts	Method	TBLASTX:Soybean
Start	5037	End	5186
GI	none	Score	213
Exons	5037..5186, 5051..5176		
Seq. No.	45281	Seq. ID	OJ000251_31.0310.C16
Gene No.	95697	Strand	-
Start	15693	End	15764
Name	OJ000251_31.0310.C16.o1.ts	Method	TBLASTX:Soybean
Start	5193	End	5876
GI	none	Score	86
Exons	5193..5255, 5258..5305, 5259..5306, 5301..5423, 5303..5413, 5433..5594, 5595..5705, 5679..5876, 5681..5875		
Seq. No.	45281	Seq. ID	OJ000251_31.0310.C16
Gene No.	95697	Strand	-
Start	15693	End	15764
Name	OJ000251_31.0310.C16.o1.tm	Method	TBLASTX:Maize
Start	5618	End	6957
GI	none	Score	536
Exons	5618..6064, 5619..6074, 6492..6584, 6568..6588, 6692..6763, 6694..6759, 6861..6950, 6862..6957		
Seq. No.	45281	Seq. ID	OJ000251_31.0310.C16
Gene No.	95697	Strand	-
Start	15693	End	15764
Name	OJ000251_31.0310.C16.o2.tc	Method	TBLASTX:Cress
Start	5657	End	6957
GI	none	Score	464
Exons	5657..6085, 5658..6074, 6493..6588, 6692..6775, 6862..6957		
Seq. No.	45281	Seq. ID	OJ000251_31.0310.C16
Gene No.	95697	Strand	-
Start	15693	End	15764
Name	OJ000251_31.0310.C16.o5.ts	Method	TBLASTX:Soybean
Start	5877	End	6957
GI	none	Score	219
Exons	5877..6086, 5882..6085, 6692..6763, 6862..6957		
Seq. No.	45281	Seq. ID	OJ000251_31.0310.C16
Gene No.	95697	Strand	-
Start	15693	End	15764
Name	OJ000251_31.0310.C16.o1.tw	Method	TBLASTX:Wheat
Start	14320	End	14795

GI	none	Score	394
Exons	14320..14706, 14322..14705, 14721..14795, 14722..14790		
Seq. No.	45281	Seq. ID	OJ000251_31.0310.C16
Gene No.	95697	Strand	-
Start	15693	End	15764
Name	OJ000251_31.0310.C16.o4.ts	Method	TBLASTX:Soybean
Start	14448	End	14789
GI	none	Score	98
Exons	14448..14657, 14527..14652, 14676..14789, 14686..14754		
Seq. No.	45281	Seq. ID	OJ000251_31.0310.C16
Gene No.	95697	Strand	-
Start	15693	End	15764
Name	OJ000251_31.0310.C16.o2.tm	Method	TBLASTX:Maize
Start	14651	End	15023
GI	none	Score	67
Exons	14651..14812, 14652..15023, 14653..15000		
Seq. No.	45281	Seq. ID	OJ000251_31.0310.C16
Gene No.	95697	Strand	-
Start	15693	End	15764
Name	OJ000251_31.0310.C16.o3.ts	Method	TBLASTX:Soybean
Start	14802	End	15150
GI	none	Score	77
Exons	14802..14990, 14803..14991, 14986..15150, 14991..15149		
Seq. No.	45281	Seq. ID	OJ000251_31.0310.C16
Gene No.	95697	Strand	-
Start	15693	End	15764
Name	OJ000251_31.0310.C16.o2.tw	Method	TBLASTX:Wheat
Start	15003	End	15549
GI	none	Score	69
Exons	15003..15209, 15204..15476, 15481..15549		
Seq. No.	45281	Seq. ID	OJ000251_31.0310.C16
Gene No.	95697	Strand	-
Start	15693	End	15764
Name	OJ000251_31.0310.C16.o3.tm	Method	TBLASTX:Maize
Start	15084	End	15549
GI	none	Score	52
Exons	15084..15482, 15187..15297, 15333..15413, 15477..15536, 15481..15549		
Seq. No.	45281	Seq. ID	OJ000251_31.0310.C16
Gene No.	95697	Strand	-
Start	15693	End	15764
Name	OJ000251_31.0310.C16.o2.ts	Method	TBLASTX:Soybean
Start	15219	End	15708
GI	5509260	Score	50
Exons	15219..15476, 15363..15473, 15481..15708, 15485..15589		
GI Descrip.	-		
Seq. No.	45281	Seq. ID	OJ000251_31.0310.C16
Gene No.	95697	Strand	-
Start	15693	End	15764
Name	OJ000251_31.0310.C16.o3.tc	Method	TBLASTX:Cress



Start	15330	End	15591
GI	none	Score	84
Exons	15330..15482, 15481..15591, 15482..15589		

Seq. No.	45281	Seq. ID	OJ000251_31.0310.C16
Gene No.	95697	Strand	-
Start	15693	End	15764
Name	OJ000251_31.0310.C16.o4.gp	Method	AAT/GAP
Start	15693	End	15764
GI	101595_1.R1084	Score	127
Exons	15693..15764		
GI Descrip.	'3047066 3.0e-15 (AF058825) contains similarity to retrovirus-related POL polyproteins [Arabidopsis thaliana]'		

Seq. No.	45282	Seq. ID	OJ000251_31.0310.C17
Gene No.	95698	Strand	+
Start	1	End	14218
Name	OJ000251_31.0310.C17.o1.np	Method	AAT/NAP
Start	1	End	14218
GI	5922599	Score	711
Exons	1..27, 3552..3679, 3774..3893, 4892..4990, 6655..6711, 7497..7543, 7637..7780, 7866..8053, 13527..13597, 13696..13779, 14099..14218		
GI Descrip.	(AB025353) oxidosqualene cyclase [Allium macrostemon]		

Seq. No.	45282	Seq. ID	OJ000251_31.0310.C17
Gene No.	95699	Strand	+
Start	14741	End	15073
Name	OJ000251_31.0310.C17.o2.np	Method	AAT/NAP
Start	14741	End	15073
GI	5902444	Score	343
Exons	14741..15073		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	45282	Seq. ID	OJ000251_31.0310.C17
Gene No.	95700	Strand	-
Start	12444	End	14908
Name	OJ000251_31.0310.C17.o1.tm	Method	TBLASTX:Maize
Start	3553	End	14212
GI	none	Score	183
Exons	3553..3684, 3554..3685, 3554..3685, 3792..3893, 3809..3892, 3811..3894, 4922..4987, 6639..6710, 6643..6714, 7497..7544, 7499..7543, 7643..7783, 7644..7781, 7646..7783, 7859..8044, 7866..8045, 7870..8058, 13523..13594, 13546..13593, 13693..13779, 13693..13779, 13698..13781, 14096..14212		

Seq. No.	45282	Seq. ID	OJ000251_31.0310.C17
Gene No.	95700	Strand	-
Start	12444	End	14908
Name	OJ000251_31.0310.C17.o1.tc	Method	TBLASTX:Cress
Start	3554	End	14209
GI	none	Score	118
Exons	3554..3685, 3792..3893, 4892..4984, 6643..6738, 7497..7544, 7641..7805, 7865..8044, 7867..8046, 7869..8030, 13537..13593, 13538..13594, 13681..13779, 13714..13779, 14096..14209		

Seq. No.	45282	Seq. ID	OJ000251_31.0310.C17
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Gene No.	95700	Strand	-
Start	12444	End	14908
Name	OJ000251_31.0310.C17.o1.ts	Method	TBLASTX:Soybean
Start	3566	End	14212
GI	none	Score	100
Exons	3566..3685, 3798..3893, 3809..3883, 4891..4986, 4892..4984, 7603..7785, 7640..7783, 7641..7805, 7866..7943, 7866..8033, 7867..8046, 13681..13779, 14096..14212		

Seq. No.	45282	Seq. ID	OJ000251_31.0310.C17
Gene No.	95700	Strand	-
Start	12444	End	14908
Name	OJ000251_31.0310.C17.o1.tw	Method	TBLASTX:Wheat
Start	7754	End	14191
GI	none	Score	39
Exons	7754..7783, 7761..7784, 7866..8030, 7867..8043, 13541..13594, 13543..13593, 13681..13788, 13698..13787, 14096..14191		

Seq. No.	45282	Seq. ID	OJ000251_31.0310.C17
Gene No.	95700	Strand	-
Start	12444	End	14908
Name	OJ000251_31.0310.C17.o2.gs	Method	GENSCAN
Start	12444	End	14908
GI	none	Score	.5
Exons	12444..12491, 12618..12977, 14711..14908		

Seq. No.	45283	Seq. ID	OJ000251_31.0310.C18
Gene No.	95701	Strand	+
Start	384	End	8272
Name	OJ000251_31.0310.C18.o1.gs	Method	GENSCAN
Start	384	End	8272
GI	none	Score	.66
Exons	384..462, 1191..1814, 2674..3296, 3369..3501, 3601..3720, 3826..4260, 4312..4659, 4704..5443, 5504..5736, 5892..5941, 5994..6332, 6666..6905, 7119..7237, 7629..7860, 8175..8272		

Seq. No.	45283	Seq. ID	OJ000251_31.0310.C18
Gene No.	95701	Strand	+
Start	384	End	8272
Name	OJ000251_31.0310.C18.o2.np	Method	AAT/NAP
Start	2695	End	8261
GI	5922631	Score	5478
Exons	2695..3021, 3064..3222, 3349..4275, 4881..7369, 8223..8261		
GI Descrip.	(AP000492) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativa] gi 6016864 dbj BAA85207.1  (AP000570) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativ		

Seq. No.	45283	Seq. ID	OJ000251_31.0310.C18
Gene No.	95701	Strand	+
Start	384	End	8272
Name	OJ000251_31.0310.C18.o3.np	Method	AAT/NAP
Start	7562	End	8269
GI	5852178	Score	170

Exons 7562..7965, 8175..8269  
 GI Descrip. (AL117265) zhb0008.1 [Oryza sativa]

Seq. No.	45283	Seq. ID	OJ000251_31.0310.C18
Gene No.	95702	Strand	-
Start	196	End	2130
Name	OJ000251_31.0310.C18.o1.np	Method	AAT/NAP
Start	196	End	2130
GI	6063554	Score	223
Exons	196..369, 1010..1037, 1373..1491, 1644..1816, 1947..2130		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	45283	Seq. ID	OJ000251_31.0310.C18
Gene No.	95703	Strand	
Start	3648	End	4049
Name	OJ000251_31.0310.C18.o6.tw	Method	TBLASTX:Wheat
Start	3648	End	4049
GI	none	Score	328
Exons	3648..4049, 3713..4033		

Seq. No.	45283	Seq. ID	OJ000251_31.0310.C18
Gene No.	95704	Strand	
Start	4292	End	4769
Name	OJ000251_31.0310.C18.o1.tw	Method	TBLASTX:Wheat
Start	4292	End	4748
GI	none	Score	464
Exons	4292..4747, 4293..4748		

Seq. No.	45283	Seq. ID	OJ000251_31.0310.C18
Gene No.	95704	Strand	
Start	4292	End	4769
Name	OJ000251_31.0310.C18.o3.ts	Method	TBLASTX:Soybean
Start	4332	End	4697
GI	none	Score	138
Exons	4332..4556, 4343..4507, 4563..4697		

Seq. No.	45283	Seq. ID	OJ000251_31.0310.C18
Gene No.	95704	Strand	
Start	4292	End	4769
Name	OJ000251_31.0310.C18.o3.tm	Method	TBLASTX:Maize
Start	4422	End	4769
GI	none	Score	332
Exons	4422..4769, 4463..4768		

Seq. No.	45283	Seq. ID	OJ000251_31.0310.C18
Gene No.	95705	Strand	
Start	4805	End	5341
Name	OJ000251_31.0310.C18.o2.tm	Method	TBLASTX:Maize
Start	4805	End	5188
GI	none	Score	360
Exons	4805..5188, 4843..5184		

Seq. No.	45283	Seq. ID	OJ000251_31.0310.C18
Gene No.	95705	Strand	
Start	4805	End	5341

Name	OJ000251_31.0310.C18.o2.tw	Method	TBLASTX:Wheat
Start	4862	End	5286
GI	none	Score	426
Exons	4862..5281, 4906..5286		
Seq. No.	45283	Seq. ID	OJ000251_31.0310.C18
Gene No.	95705	Strand	
Start	4805	End	5341
Name	OJ000251_31.0310.C18.o1.ts	Method	TBLASTX:Soybean
Start	4949	End	5341
GI	none	Score	262
Exons	4949..5341, 4957..5280		
Seq. No.	45283	Seq. ID	OJ000251_31.0310.C18
Gene No.	95706	Strand	
Start	5290	End	5574
Name	OJ000251_31.0310.C18.o7.tw	Method	TBLASTX:Wheat
Start	5290	End	5574
GI	none	Score	235
Exons	5290..5364, 5291..5572, 5303..5563, 5410..5574		
Seq. No.	45283	Seq. ID	OJ000251_31.0310.C18
Gene No.	95707	Strand	
Start	5537	End	5986
Name	OJ000251_31.0310.C18.o2.ts	Method	TBLASTX:Soybean
Start	5537	End	5955
GI	none	Score	89
Exons	5537..5671, 5711..5953, 5716..5955		
Seq. No.	45283	Seq. ID	OJ000251_31.0310.C18
Gene No.	95707	Strand	
Start	5537	End	5986
Name	OJ000251_31.0310.C18.o3.tw	Method	TBLASTX:Wheat
Start	5576	End	5986
GI	none	Score	392
Exons	5576..5986, 5578..5925		
Seq. No.	45283	Seq. ID	OJ000251_31.0310.C18
Gene No.	95707	Strand	
Start	5537	End	5986
Name	OJ000251_31.0310.C18.o5.tm	Method	TBLASTX:Maize
Start	5630	End	5899
GI	none	Score	131
Exons	5630..5800, 5642..5734, 5804..5899, 5821..5892		
Seq. No.	45283	Seq. ID	OJ000251_31.0310.C18
Gene No.	95708	Strand	
Start	6311	End	6703
Name	OJ000251_31.0310.C18.o1.tm	Method	TBLASTX:Maize
Start	6311	End	6637
GI	none	Score	411
Exons	6311..6637, 6331..6636		
Seq. No.	45283	Seq. ID	OJ000251_31.0310.C18
Gene No.	95708	Strand	
Start	6311	End	6703
Name	OJ000251_31.0310.C18.o4.tw	Method	TBLASTX:Wheat

Start	6316	End	6703
GI	none	Score	386
Exons	6316..6627, 6317..6703, 6518..6703		
Seq. No.	45283	Seq. ID	OJ000251_31.0310.C18
Gene No.	95709	Strand	
Start	6818	End	7351
Name	OJ000251_31.0310.C18.o5.tw	Method	TBLASTX:Wheat
Start	6818	End	7351
GI	none	Score	340
Exons	6818..7309, 6818..6934, 6979..7080, 7295..7351		
Seq. No.	45283	Seq. ID	OJ000251_31.0310.C18
Gene No.	95709	Strand	
Start	6818	End	7351
Name	OJ000251_31.0310.C18.o4.tm	Method	TBLASTX:Maize
Start	7046	End	7309
GI	none	Score	203
Exons	7046..7309		
Seq. No.	45284	Seq. ID	OJ000251_31.0310.C19
Gene No.	95710	Strand	+
Start	554	End	1035
Name	OJ000251_31.0310.C19.o1.gs	Method	GENSCAN
Start	554	End	1035
GI	none	Score	.87
Exons	554..583, 850..1035		
Seq. No.	45284	Seq. ID	OJ000251_31.0310.C19
Gene No.	95711	Strand	-
Start	2717	End	4090
Name	OJ000251_31.0310.C19.o2.gs	Method	GENSCAN
Start	2717	End	4090
GI	none	Score	.48
Exons	2717..4090		
Seq. No.	45285	Seq. ID	OJ000251_31.0310.C20
Gene No.	95712	Strand	+
Start	132	End	217
Name	OJ000251_31.0310.C20.o1.gs	Method	GENSCAN
Start	132	End	217
GI	none	Score	.98
Exons	132..217		
Seq. No.	45285	Seq. ID	OJ000251_31.0310.C20
Gene No.	95713	Strand	-
Start	4702	End	7216
Name	OJ000251_31.0310.C20.o3.gs	Method	GENSCAN
Start	4702	End	7028
GI	none	Score	.89
Exons	4702..5623, 6226..7028		
Seq. No.	45285	Seq. ID	OJ000251_31.0310.C20
Gene No.	95713	Strand	-
Start	4702	End	7216
Name	OJ000251_31.0310.C20.o1.np	Method	AAT/NAP
Start	4705	End	6746

GI 1360141 Score 1559  
 Exons 4705..4769, 4797..5623, 6226..6746  
 GI Descrip. (X97980) protein kinase [Solanum berthaultii]

Seq. No. 45285 Seq. ID OJ000251\_31.0310.C20  
 Gene No. 95713 Strand -  
 Start 4702 End 7216  
 Name OJ000251\_31.0310.C20.o1.tc Method TBLASTX:Cress  
 Start 4810 End 6597  
 GI none Score 403  
 Exons 4810..5262, 4859..5263, 5440..5628, 5456..5653, 6223..6537, 6225..6551, 6565..6597

Seq. No. 45285 Seq. ID OJ000251\_31.0310.C20  
 Gene No. 95713 Strand -  
 Start 4702 End 7216  
 Name OJ000251\_31.0310.C20.o1.ts Method TBLASTX:Soybean  
 Start 4825 End 6305  
 GI none Score 402  
 Exons 4825..5262, 4832..5263, 5449..5628, 5450..5653, 6223..6303, 6225..6305

Seq. No. 45285 Seq. ID OJ000251\_31.0310.C20  
 Gene No. 95713 Strand -  
 Start 4702 End 7216  
 Name OJ000251\_31.0310.C20.o1.tw Method TBLASTX:Wheat  
 Start 4858 End 5205  
 GI none Score 315  
 Exons 4858..5205, 4859..5203

Seq. No. 45285 Seq. ID OJ000251\_31.0310.C20  
 Gene No. 95713 Strand -  
 Start 4702 End 7216  
 Name OJ000251\_31.0310.C20.o1.tm Method TBLASTX:Maize  
 Start 4861 End 5607  
 GI none Score 376  
 Exons 4861..5325, 4862..5263, 5302..5364, 5339..5365, 5449..5607, 5459..5590

Seq. No. 45285 Seq. ID OJ000251\_31.0310.C20  
 Gene No. 95713 Strand -  
 Start 4702 End 7216  
 Name OJ000251\_31.0310.C20.o2.tm Method TBLASTX:Maize  
 Start 6223 End 6624  
 GI none Score 258  
 Exons 6223..6537, 6225..6551, 6564..6623, 6583..6624

Seq. No. 45285 Seq. ID OJ000251\_31.0310.C20  
 Gene No. 95713 Strand -  
 Start 4702 End 7216  
 Name OJ000251\_31.0310.C20.o2.ts Method TBLASTX:Soybean  
 Start 6306 End 6569  
 GI none Score 195  
 Exons 6306..6569, 6307..6537

Seq. No. 45285 Seq. ID OJ000251\_31.0310.C20  
 Gene No. 95713 Strand -

Start	4702	End	7216
Name	OJ000251_31.0310.C20.o1.gp	Method	AAT/GAP
Start	6704	End	7216
GI	29344_1.R1084	Score	682
Exons	6704..7216		
GI Descrip.	'5852170/emb AL117265.1 OST17804 3.0e-94 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:tl7804'		
Seq. No.	45286	Seq. ID	OJ000251_34.0303.C5
Gene No.	95714	Strand	-
Start	360	End	1144
Name	OJ000251_34.0303.C5.o1.gs	Method	GENSCAN
Start	360	End	1144
GI	none	Score	.53
Exons	360..380, 1046..1144		
Seq. No.	45287	Seq. ID	OJ000251_34.0303.C14
Gene No.	95715	Strand	+
Start	1	End	5930
Name	OJ000251_34.0303.C14.o1.np	Method	AAT/NAP
Start	1	End	1652
GI	6815052	Score	1782
Exons	1..212, 261..998, 1080..1154, 1534..1652		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		
Seq. No.	45287	Seq. ID	OJ000251_34.0303.C14
Gene No.	95715	Strand	+
Start	1	End	5930
Name	OJ000251_34.0303.C14.o1.gs	Method	GENSCAN
Start	26	End	5930
GI	none	Score	.69
Exons	26..1154, 1656..1829, 2412..2533, 3457..3562, 4043..4170, 4394..4513, 4926..5061, 5830..5930		
Seq. No.	45287	Seq. ID	OJ000251_34.0303.C14
Gene No.	95715	Strand	+
Start	1	End	5930
Name	OJ000251_34.0303.C14.o2.np	Method	AAT/NAP
Start	3989	End	4170
GI	5295978	Score	238
Exons	3989..4170		
GI Descrip.	(AB003322) MADS box-like protein [Oryza sativa]		
Seq. No.	45287	Seq. ID	OJ000251_34.0303.C14
Gene No.	95716	Strand	-
Start	6992	End	7103
Name	OJ000251_34.0303.C14.o1.gp	Method	AAT/GAP
Start	6992	End	7103
GI	LIB3477-003-P1-K1-E9	Score	84
Exons	6992..7103		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		
Seq. No.	45288	Seq. ID	OJ000251_34.0303.C23
Gene No.	95717	Strand	-
Start	1550	End	8810

Name	OJ000251_34.0303.C23.o1.np	Method	AAT/NAP
Start	1550	End	8782
GI	81286	Score	74
Exons	1550..1663, 1913..2031, 8509..8782		
GI Descrip.	extensin - Volvox carteri (fragment) gi 21992 emb CAA46283  (X65165) extensin [Volvox carteri]		

Seq. No.	45288	Seq. ID	OJ000251_34.0303.C23
Gene No.	95717	Strand	-
Start	1550	End	8810
Name	OJ000251_34.0303.C23.o2.gs	Method	GENSCAN
Start	4170	End	8810
GI	none	Score	.52
Exons	4170..4309, 4544..4695, 5322..5658, 7082..7163, 7408..7556, 8579..8810		

Seq. No.	45288	Seq. ID	OJ000251_34.0303.C23
Gene No.	95717	Strand	-
Start	1550	End	8810
Name	OJ000251_34.0303.C23.o1.gp	Method	AAT/GAP
Start	5014	End	5851
GI	100868_1.R1084	Score	1346
Exons	5014..5658, 5760..5851		
GI Descrip.	'902200/emb X86563 CHZMXX 7.0e-09 Z.mays complete chloroplast genome'		

Seq. No.	45288	Seq. ID	OJ000251_34.0303.C23
Gene No.	95717	Strand	-
Start	1550	End	8810
Name	OJ000251_34.0303.C23.o2.gp	Method	AAT/GAP
Start	6270	End	6669
GI	5900747	Score	756
Exons	6270..6669		
GI Descrip.	902200/emb X86563 CHZMXX 7.0e-09 Z.mays complete chloroplast genome		

Seq. No.	45288	Seq. ID	OJ000251_34.0303.C23
Gene No.	95717	Strand	-
Start	1550	End	8810
Name	OJ000251_34.0303.C23.o3.gp	Method	AAT/GAP
Start	6999	End	8707
GI	31700_1.R1084	Score	728
Exons	6999..7163, 7408..7608, 8579..8707		
GI Descrip.	'6041757/gb AC011806.1 AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	45288	Seq. ID	OJ000251_34.0303.C23
Gene No.	95718	Strand	-
Start	10010	End	12868
Name	OJ000251_34.0303.C23.o2.tm	Method	TBLASTX:Maize
Start	5360	End	7456
GI	none	Score	57
Exons	5360..5461, 5362..5460, 5411..5473, 5413..5472, 5435..5518, 5490..5660, 5498..5572, 5525..5659, 5565..5699, 5573..5671, 5758..5835, 5761..5835, 7080..7163, 7080..7163, 7082..7165, 7409..7456		



Seq. No.	45288	Seq. ID	OJ000251_34.0303.C23
Gene No.	95718	Strand	-
Start	10010	End	12868
Name	OJ000251_34.0303.C23.o2.tc	Method	TBLASTX:Cress
Start	7409	End	7626
GI	none	Score	116
Exons	7409..7609, 7409..7609, 7477..7611, 7510..7626		

Seq. No.	45288	Seq. ID	OJ000251_34.0303.C23
Gene No.	95718	Strand	-
Start	10010	End	12868
Name	OJ000251_34.0303.C23.o3.ts	Method	TBLASTX:Soybean
Start	7409	End	7623
GI	none	Score	203
Exons	7409..7609, 7460..7609, 7477..7623, 7477..7611		

Seq. No.	45288	Seq. ID	OJ000251_34.0303.C23
Gene No.	95718	Strand	-
Start	10010	End	12868
Name	OJ000251_34.0303.C23.o3.tm	Method	TBLASTX:Maize
Start	7481	End	7626
GI	none	Score	176
Exons	7481..7609, 7483..7611, 7486..7626		

Seq. No.	45288	Seq. ID	OJ000251_34.0303.C23
Gene No.	95718	Strand	-
Start	10010	End	12868
Name	OJ000251_34.0303.C23.o4.gp	Method	AAT/GAP
Start	9877	End	10547
GI	none	Score	1079
Exons	9877..10123, 10224..10547		

Seq. No.	45288	Seq. ID	OJ000251_34.0303.C23
Gene No.	95718	Strand	-
Start	10010	End	12868
Name	OJ000251_34.0303.C23.o3.gs	Method	GENSCAN
Start	10010	End	12770
GI	none	Score	.81
Exons	10010..10192, 10224..10328, 11099..11190, 11914..11968, 12053..12138, 12313..12414, 12640..12770		

Seq. No.	45288	Seq. ID	OJ000251_34.0303.C23
Gene No.	95718	Strand	-
Start	10010	End	12868
Name	OJ000251_34.0303.C23.o1.tc	Method	TBLASTX:Cress
Start	10013	End	12416
GI	none	Score	130
Exons	10013..10132, 10014..10124, 10210..10356, 10214..10318, 10215..10355, 11096..11191, 11097..11192, 11289..11360, 11290..11355, 11840..11968, 11844..11969, 11850..11972, 12050..12154, 12051..12140, 12312..12416, 12315..12395, 12326..12415		

Seq. No.	45288	Seq. ID	OJ000251_34.0303.C23
Gene No.	95718	Strand	-
Start	10010	End	12868

Name	OJ000251_34.0303.C23.o2.ts	Method	TBLASTX:Soybean
Start	10044	End	11149
GI	none	Score	95
Exons	10044..10124, 10046..10132, 10210..10341, 10215..10355, 11096..11149		

Seq. No.	45288	Seq. ID	OJ000251_34.0303.C23
Gene No.	95718	Strand	-
Start	10010	End	12868
Name	OJ000251_34.0303.C23.o2.np	Method	AAT/NAP
Start	10046	End	12868
GI	7470288	Score	542
Exons	10046..10123, 10224..10328, 11099..11188, 11277..11356, 11842..11968, 12053..12138, 12313..12414, 12640..12868		
GI Descrip.	hypothetical protein slr0825 - Synechocystis sp. (strain PCC 6803) gi 1001263 dbj BAA10507.1  (D64003) hypothetical protein [Synechocystis sp.]		

Seq. No.	45288	Seq. ID	OJ000251_34.0303.C23
Gene No.	95718	Strand	-
Start	10010	End	12868
Name	OJ000251_34.0303.C23.o1.ts	Method	TBLASTX:Soybean
Start	11289	End	12863
GI	none	Score	136
Exons	11289..11327, 11328..11360, 11840..11968, 11847..11969, 11847..11984, 12050..12154, 12051..12140, 12310..12411, 12310..12411, 12312..12416, 12326..12415, 12638..12766, 12714..12863		

Seq. No.	45288	Seq. ID	OJ000251_34.0303.C23
Gene No.	95718	Strand	-
Start	10010	End	12868
Name	OJ000251_34.0303.C23.o1.tm	Method	TBLASTX:Maize
Start	11843	End	12830
GI	none	Score	173
Exons	11843..11974, 11844..11969, 11845..11970, 12050..12154, 12051..12140, 12310..12414, 12312..12416, 12312..12413, 12326..12415, 12622..12828, 12623..12826, 12640..12828, 12717..12830		

Seq. No.	45288	Seq. ID	OJ000251_34.0303.C23
Gene No.	95718	Strand	-
Start	10010	End	12868
Name	OJ000251_34.0303.C23.o5.gp	Method	AAT/GAP
Start	12074	End	12868
GI	uC-osflcyp036g09b1	Score	728
Exons	12074..12138, 12313..12414, 12640..12868		
GI Descrip.	'1001263/dbj BAA10507  2.0e-11 (D64003) hypothetical protein [Synechocystis sp.]'		

Seq. No.	45289	Seq. ID	OJ000251_34.0303.C24
Gene No.	95719	Strand	-
Start	28	End	673
Name	OJ000251_34.0303.C24.o1.gs	Method	GENSCAN
Start	28	End	673
GI	none	Score	.75
Exons	28..118, 261..442, 533..673		

Seq. No.	45290	Seq. ID	OJ000251_34.0303.C25
Gene No.	95720	Strand	-
Start	1	End	3258
Name	OJ000251_34.0303.C25.o1.np	Method	AAT/NAP
Start	1	End	3203
GI	7470288	Score	261
Exons	1..37, 1120..1268, 1399..1460, 1535..1607, 2051..2243, 3041..3203		
GI Descrip.	hypothetical protein slr0825 - Synechocystis sp. (strain PCC 6803) gi 1001263 dbj BAA10507.1  (D64003) hypothetical protein [Synechocystis sp.]		

Seq. No.	45290	Seq. ID	OJ000251_34.0303.C25
Gene No.	95720	Strand	-
Start	1	End	3258
Name	OJ000251_34.0303.C25.o1.gs	Method	GENSCAN
Start	587	End	3258
GI	none	Score	.9
Exons	587..698, 1120..1267, 1389..1460, 1535..1639, 2071..2240, 3041..3258		

Seq. No.	45290	Seq. ID	OJ000251_34.0303.C25
Gene No.	95720	Strand	-
Start	1	End	3258
Name	OJ000251_34.0303.C25.o1.gp	Method	AAT/GAP
Start	1402	End	3076
GI	426199	Score	669
Exons	1402..1460, 1535..1639, 2071..2240, 3041..3076		
GI Descrip.	1001263/dbj BAA10507  2.0e-11 (D64003) hypothetical protein [Synechocystis sp.]		

Seq. No.	45290	Seq. ID	OJ000251_34.0303.C25
Gene No.	95721	Strand	-
Start	4126	End	10030
Name	OJ000251_34.0303.C25.o1.tm	Method	TBLASTX:Maize
Start	1063	End	8486
GI	none	Score	217
Exons	1063..1257, 1073..1246, 1077..1256, 8343..8486, 8345..8485		

Seq. No.	45290	Seq. ID	OJ000251_34.0303.C25
Gene No.	95721	Strand	-
Start	4126	End	10030
Name	OJ000251_34.0303.C25.o2.tc	Method	TBLASTX:Cress
Start	1569	End	9985
GI	none	Score	64
Exons	1569..1631, 1570..1632, 2068..2121, 2081..2155, 2083..2157, 2126..2239, 2145..2183, 3040..3168, 3040..3171, 8763..8834, 9553..9675, 9596..9676, 9646..9738, 9665..9718, 9857..9985		

Seq. No.	45290	Seq. ID	OJ000251_34.0303.C25
Gene No.	95721	Strand	-
Start	4126	End	10030
Name	OJ000251_34.0303.C25.o2.ts	Method	TBLASTX:Soybean
Start	2135	End	9985
GI	none	Score	79
Exons	2135..2206, 2145..2213, 3040..3171, 3064..3168, 9655..9765,		

9656..9772, 9857..9985

Seq. No.	45290	Seq. ID	OJ000251_34.0303.C25
Gene No.	95721	Strand	-
Start	4126	End	10030
Name	OJ000251_34.0303.C25.o2.gs	Method	GENSCAN
Start	4126	End	10030
GI	none	Score	.71
Exons	4126..4251, 4471..4601, 5215..5287, 5539..5672, 5864..5965, 6323..6545, 6641..6706, 7629..7684, 7893..7975, 8349..8496, 8571..8663, 9394..9495, 9591..9772, 9858..10030		

Seq. No.	45290	Seq. ID	OJ000251_34.0303.C25
Gene No.	95721	Strand	-
Start	4126	End	10030
Name	OJ000251_34.0303.C25.o1.tc	Method	TBLASTX:Cress
Start	4141	End	5967
GI	none	Score	127
Exons	4141..4254, 4142..4252, 4471..4578, 4472..4588, 5023..5127, 5024..5134, 5207..5284, 5208..5282, 5374..5502, 5381..5503, 5573..5674, 5584..5682, 5585..5638, 5861..5962, 5862..5966, 5862..5966, 5863..5967		

Seq. No.	45290	Seq. ID	OJ000251_34.0303.C25
Gene No.	95721	Strand	-
Start	4126	End	10030
Name	OJ000251_34.0303.C25.o2.np	Method	AAT/NAP
Start	4174	End	10015
GI	7470288	Score	734
Exons	4174..4251, 4471..4575, 5026..5124, 5210..5284, 5380..5502, 5587..5672, 5864..5965, 6323..6576, 6844..6934, 7018..7136, 7629..7684, 7893..7975, 8349..8496, 8580..8651, 8845..8909, 9572..9772, 9858..10015		
GI Descrip.	hypothetical protein slr0825 - Synechocystis sp. (strain PCC 6803) gi 1001263 dbj BAA10507.1  (D64003) hypothetical protein [Synechocystis sp.]		

Seq. No.	45290	Seq. ID	OJ000251_34.0303.C25
Gene No.	95721	Strand	-
Start	4126	End	10030
Name	OJ000251_34.0303.C25.o1.ts	Method	TBLASTX:Soybean
Start	5380	End	6704
GI	none	Score	125
Exons	5380..5502, 5381..5503, 5584..5682, 5585..5644, 5862..5966, 5862..5972, 5863..5967, 6321..6590, 6322..6567, 6638..6703, 6639..6704		

Seq. No.	45290	Seq. ID	OJ000251_34.0303.C25
Gene No.	95721	Strand	-
Start	4126	End	10030
Name	OJ000251_34.0303.C25.o2.tm	Method	TBLASTX:Maize
Start	5380	End	6513
GI	none	Score	131
Exons	5380..5502, 5381..5503, 5567..5671, 5584..5682, 5585..5635, 5861..5962, 5862..5951, 5862..5966, 5863..5967, 6321..6512, 6322..6513		

Seq. No.	45290	Seq. ID	OJ000251_34.0303.C25
Gene No.	95721	Strand	-
Start	4126	End	10030
Name	OJ000251_34.0303.C25.o4.np	Method	AAT/NAP
Start	7031	End	10015
GI	7470288	Score	267
Exons	7031..7136, 7629..7684, 7893..7975, 8349..8496, 8580..8651, 8845..8909, 9572..9772, 9858..10015		
GI Descrip.	hypothetical protein slr0825 - <i>Synechocystis</i> sp. (strain PCC 6803) gi 1001263 dbj BAA10507.1  (D64003) hypothetical protein [ <i>Synechocystis</i> sp.]		

Seq. No.	45290	Seq. ID	OJ000251_34.0303.C25
Gene No.	95721	Strand	-
Start	4126	End	10030
Name	OJ000251_34.0303.C25.o3.np	Method	AAT/NAP
Start	8372	End	9971
GI	7498434	Score	61
Exons	8372..8496, 9911..9971		
GI Descrip.	hypothetical protein F01F1.5 - <i>Caenorhabditis elegans</i> gi 529702 gb AAC46639.1  (U13070) similar to acylaminoacyl-peptidase [ <i>Caenorhabditis elegans</i> ]		

Seq. No.	45291	Seq. ID	OJ000251_34.0303.C26
Gene No.	95722	Strand	+
Start	15044	End	16177
Name	OJ000251_34.0303.C26.o5.gs	Method	GENSCAN
Start	15044	End	16177
GI	none	Score	.84
Exons	15044..15056, 15165..15476, 15735..15900, 16018..16177		

Seq. No.	45291	Seq. ID	OJ000251_34.0303.C26
Gene No.	95723	Strand	-
Start	1313	End	2956
Name	OJ000251_34.0303.C26.o1.gs	Method	GENSCAN
Start	1313	End	2947
GI	none	Score	.98
Exons	1313..2106, 2566..2947		

Seq. No.	45291	Seq. ID	OJ000251_34.0303.C26
Gene No.	95723	Strand	-
Start	1313	End	2956
Name	OJ000251_34.0303.C26.o3.np	Method	AAT/NAP
Start	1352	End	2929
GI	3882355	Score	1235
Exons	1352..2106, 2566..2929		
GI Descrip.	(U92460) 12-oxophytodienoate reductase OPR1 [ <i>Arabidopsis thaliana</i> ] gi 6143902 gb AAF04448.1 AC010718_17 (AC010718) 12-oxophytodienoate reductase (OPR1) [ <i>Arabidopsis thaliana</i> ]		

Seq. No.	45291	Seq. ID	OJ000251_34.0303.C26
Gene No.	95723	Strand	-
Start	1313	End	2956
Name	OJ000251_34.0303.C26.o2.np	Method	AAT/NAP
Start	1352	End	2935
GI	3882356	Score	1225
Exons	1352..2106, 2566..2935		

GI Descrip. (U92460) 12-oxophytodienoate reductase OPR2 [Arabidopsis thaliana] gi|6143903|gb|AAF04449.1|AC010718\_18 (AC010718) 12-oxophytodienoate reductase (OPR2) [Arabidopsis thaliana].

Seq. No.	45291	Seq. ID	OJ000251_34.0303.C26
Gene No.	95723	Strand	-
Start	1313	End	2956
Name	OJ000251_34.0303.C26.o1.np	Method	AAT/NAP
Start	1352	End	2956
GI	7449901	Score	1196

Exons 1352..2106, 2566..2956  
 GI Descrip. probable 12-oxophytodienoate reductase (EC 1.3.1.42) -  
 Madagascar periwinkle gi|2232254|gb|AAB62248.1| (AF005237)  
 old-yellow-enzyme homolog [Catharanthus roseus]

Seq. No.	45291	Seq. ID	OJ000251_34.0303.C26
Gene No.	95724	Strand	-
Start	5011	End	6202
Name	OJ000251_34.0303.C26.o2.gs	Method	GENSCAN
Start	5011	End	6202
GI	none	Score	.6
Exons	5011..5127, 5358..5452, 5821..6202		

Seq. No.	45291	Seq. ID	OJ000251_34.0303.C26
Gene No.	95725	Strand	-
Start	7316	End	8580
Name	OJ000251_34.0303.C26.o3.gs	Method	GENSCAN
Start	7316	End	8580
GI	none	Score	.93
Exons	7316..8094, 8235..8580		

Seq. No.	45291	Seq. ID	OJ000251_34.0303.C26
Gene No.	95726	Strand	-
Start	11947	End	14716
Name	OJ000251_34.0303.C26.o4.gs	Method	GENSCAN
Start	11947	End	14716
GI	none	Score	.47
Exons	11947..11994, 13107..13159, 13642..13804, 13880..14716		

Seq. No.	45291	Seq. ID	OJ000251_34.0303.C26
Gene No.	95727	Strand	-
Start	17450	End	20985
Name	OJ000251_34.0303.C26.o2.gp	Method	AAT/GAP
Start	17450	End	18333
GI	16410_1.R1084	Score	1534
Exons	17450..18333		

GI Descrip. '5852170/emb|AL117265.1|OST17804 1.0e-177 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:tl7804'

Seq. No.	45291	Seq. ID	OJ000251_34.0303.C26
Gene No.	95727	Strand	-
Start	17450	End	20985
Name	OJ000251_34.0303.C26.o6.gs	Method	GENSCAN
Start	17534	End	18802
GI	none	Score	.81
Exons	17534..18312, 18439..18802		

Seq. No.	45291	Seq. ID	OJ000251_34.0303.C26
Gene No.	95727	Strand	-
Start	17450	End	20985
Name	OJ000251_34.0303.C26.o4.np	Method	AAT/NAP
Start	17543	End	20823
GI	7449902	Score	1313
Exons	17543..18312, 18439..18760, 20773..20823		
GI Descrip.	probable 12-oxophytodienoate reductase (EC 1.3.1.42) CPRD8, drought-inducible - cowpea gi 1854443 dbj BAA12160.1  (D83970) CPRD8 protein [Vigna unguiculata]		

Seq. No.	45291	Seq. ID	OJ000251_34.0303.C26
Gene No.	95727	Strand	-
Start	17450	End	20985
Name	OJ000251_34.0303.C26.o3.gp	Method	AAT/GAP
Start	18477	End	18848
GI	426106	Score	698
Exons	18477..18848		
GI Descrip.	3882355/gb AAC78440.1  5.0e-33 (U92460) 12-oxophytodienoate reductase OPR1 [Arabidopsis thaliana]		

Seq. No.	45291	Seq. ID	OJ000251_34.0303.C26
Gene No.	95727	Strand	-
Start	17450	End	20985
Name	OJ000251_34.0303.C26.o7.gs	Method	GENSCAN
Start	20455	End	20985
GI	none	Score	.76
Exons	20455..20985		

Seq. No.	45291	Seq. ID	OJ000251_34.0303.C26
Gene No.	95728	Strand	-
Start	22097	End	23713
Name	OJ000251_34.0303.C26.o1.tc	Method	TBLASTX:Cress
Start	1364	End	22873
GI	none	Score	107
Exons	1364..1591, 1364..1669, 1386..1598, 1679..1768, 1679..2035, 1683..2024, 2051..2116, 2564..2857, 2565..2849, 2879..2902, 7304..7663, 7350..7586, 7667..8023, 7671..7967, 8039..8092, 8040..8111, 8233..8529, 8234..8530, 8539..8565, 17567..17881, 17570..17797, 17592..17804, 17885..18022, 17885..18241, 17916..18230, 18257..18310, 18437..18760, 18438..18749, 22133..22444, 22134..22205, 22136..22363, 22305..22370, 22451..22807, 22482..22796, 22655..22801, 22823..22873, 22824..22871		

Seq. No.	45291	Seq. ID	OJ000251_34.0303.C26
Gene No.	95728	Strand	-
Start	22097	End	23713
Name	OJ000251_34.0303.C26.o1.tm	Method	TBLASTX:Maize
Start	1364	End	22873
GI	none	Score	192
Exons	1364..1699, 1382..1669, 1682..2032, 1686..2024, 2051..2116, 2567..2857, 2571..2858, 7289..7636, 7356..7571, 7369..7629, 7370..7663, 7371..7667, 7670..8020, 7677..7967, 8039..8092, 8052..8087, 8236..8529, 8240..8530, 17588..17881, 17592..17810, 17845..17880, 17888..18238, 17895..18230, 18257..18310, 18270..18305, 18440..18757, 18444..18749, 22130..22444,		

22158..22202, 22305..22376, 22411..22440, 22416..22682,  
22454..22804, 22461..22796, 22823..22873, 22836..22871

Seq. No.	45291	Seq. ID	OJ000251_34.0303.C26
Gene No.	95728	Strand	-
Start	22097	End	23713
Name	OJ000251_34.0303.C26.o1.ts	Method	TBLASTX:Soybean
Start	1364	End	22873
GI	none	Score	126
Exons	1364..1669, 1386..1604, 1679..2032, 1701..2024, 2051..2104, 2052..2099, 2567..2857, 2574..2849, 7325..7663, 7326..7592, 7346..7597, 7620..7673, 7667..8026, 7671..7967, 8039..8092, 8040..8087, 8242..8529, 8243..8530, 8539..8571, 17549..17881, 17592..17810, 17838..17882, 17885..18244, 17889..18230, 18257..18310, 18258..18305, 18446..18757, 18447..18749, 21973..22023, 22109..22381, 22115..22444, 22451..22804, 22455..22796, 22655..22801, 22823..22873, 22824..22871		

Seq. No.	45291	Seq. ID	OJ000251_34.0303.C26
Gene No.	95728	Strand	-
Start	22097	End	23713
Name	OJ000251_34.0303.C26.o1.tw	Method	TBLASTX:Wheat
Start	2571	End	18760
GI	none	Score	303
Exons	2571..2864, 2576..2863, 2879..2902, 8228..8533, 8239..8532, 18438..18557, 18443..18760, 18444..18749		

Seq. No.	45291	Seq. ID	OJ000251_34.0303.C26
Gene No.	95728	Strand	-
Start	22097	End	23713
Name	OJ000251_34.0303.C26.o8.gs	Method	GENSCAN
Start	22097	End	23577
GI	none	Score	.91
Exons	22097..22878, 23454..23577		

Seq. No.	45291	Seq. ID	OJ000251_34.0303.C26
Gene No.	95728	Strand	-
Start	22097	End	23713
Name	OJ000251_34.0303.C26.o5.np	Method	AAT/NAP
Start	22124	End	23713
GI	4894182	Score	822
Exons	22124..22918, 23652..23713		
GI Descrip.	(AJ242551) 12-oxophytodienoate reductase [Lycopersicon esculentum]		

Seq. No.	45292	Seq. ID	OJ000251_34.0303.C29
Gene No.	95729	Strand	+
Start	3714	End	5221
Name	OJ000251_34.0303.C29.o3.np	Method	AAT/NAP
Start	3714	End	5221
GI	7228450	Score	200
Exons	3714..3825, 4659..4744, 4887..5003, 5107..5221		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	45292	Seq. ID	OJ000251_34.0303.C29
Gene No.	95730	Strand	-
Start	2185	End	3564



Name	OJ000251_34.0303.C29.o2.gs	Method	GENSCAN
Start	2185	End	3558
GI	none	Score	.68
Exons	2185..2586, 2743..3068, 3103..3178, 3205..3558		

Seq. No.	45292	Seq. ID	OJ000251_34.0303.C29
Gene No.	95730	Strand	-
Start	2185	End	3564
Name	OJ000251_34.0303.C29.o1.np	Method	AAT/NAP
Start	2230	End	3564
GI	4314356	Score	507
Exons	2230..3564		
GI Descrip.	(AC006340) putative anthocyanidin-3-glucoside rhamnosyltransferase [Arabidopsis thaliana]		

Seq. No.	45292	Seq. ID	OJ000251_34.0303.C29
Gene No.	95731	Strand	-
Start	7147	End	9240
Name	OJ000251_34.0303.C29.o2.ts	Method	TBLASTX:Soybean
Start	2242	End	3267
GI	none	Score	66
Exons	2242..2319, 2386..2652, 2396..2668, 2683..2817, 2765..2827, 2869..2919, 3193..3267		

Seq. No.	45292	Seq. ID	OJ000251_34.0303.C29
Gene No.	95731	Strand	-
Start	7147	End	9240
Name	OJ000251_34.0303.C29.o2.tc	Method	TBLASTX:Cress
Start	2446	End	2835
GI	none	Score	60
Exons	2446..2652, 2483..2635, 2635..2835, 2636..2818		

Seq. No.	45292	Seq. ID	OJ000251_34.0303.C29
Gene No.	95731	Strand	-
Start	7147	End	9240
Name	OJ000251_34.0303.C29.o2.tm	Method	TBLASTX:Maize
Start	2446	End	2938
GI	none	Score	74
Exons	2446..2652, 2580..2747, 2666..2818, 2677..2823, 2912..2938		

Seq. No.	45292	Seq. ID	OJ000251_34.0303.C29
Gene No.	95731	Strand	-
Start	7147	End	9240
Name	OJ000251_34.0303.C29.o2.tw	Method	TBLASTX:Wheat
Start	2584	End	2982
GI	none	Score	82
Exons	2584..2652, 2671..2844, 2672..2821, 2854..2982		

Seq. No.	45292	Seq. ID	OJ000251_34.0303.C29
Gene No.	95731	Strand	-
Start	7147	End	9240
Name	OJ000251_34.0303.C29.o3.tm	Method	TBLASTX:Maize
Start	3181	End	3531
GI	none	Score	61
Exons	3181..3285, 3268..3402, 3281..3397, 3397..3522, 3397..3531, 3407..3526		

Seq. No.	45292	Seq. ID	OJ000251_34.0303.C29
Gene No.	95731	Strand	-
Start	7147	End	9240
Name	OJ000251_34.0303.C29.o1.gp	Method	AAT/GAP
Start	6935	End	7704
GI	16410_2.R1084	Score	970
Exons	6935..7704		
GI Descrip.	'3882356/gb AAC78441.1  2.0e-39 (U92460) 12-oxophytodienoate reductase OPR2 [Arabidopsis thaliana]'		

Seq. No.	45292	Seq. ID	OJ000251_34.0303.C29
Gene No.	95731	Strand	-
Start	7147	End	9240
Name	OJ000251_34.0303.C29.o3.gs	Method	GENSCAN
Start	7147	End	9240
GI	none	Score	.8
Exons	7147..7928, 8027..8381, 9115..9240		

Seq. No.	45292	Seq. ID	OJ000251_34.0303.C29
Gene No.	95731	Strand	-
Start	7147	End	9240
Name	OJ000251_34.0303.C29.o1.ts	Method	TBLASTX:Soybean
Start	7156	End	8352
GI	none	Score	105
Exons	7156..7497, 7180..7431, 7462..7521, 7501..7854, 7505..7846, 7744..7851, 7873..7926, 7874..7921, 8034..8351, 8035..8352		

Seq. No.	45292	Seq. ID	OJ000251_34.0303.C29
Gene No.	95731	Strand	-
Start	7147	End	9240
Name	OJ000251_34.0303.C29.o1.tm	Method	TBLASTX:Maize
Start	7174	End	8346
GI	none	Score	172
Exons	7174..7521, 7177..7497, 7209..7505, 7504..7854, 7511..7846, 7873..7941, 7886..7927, 8028..8345, 8032..8346		

Seq. No.	45292	Seq. ID	OJ000251_34.0303.C29
Gene No.	95731	Strand	-
Start	7147	End	9240
Name	OJ000251_34.0303.C29.o4.np	Method	AAT/NAP
Start	7174	End	8381
GI	3882356	Score	1276
Exons	7174..7928, 8027..8381		
GI Descrip.	(U92460) 12-oxophytodienoate reductase OPR2 [Arabidopsis thaliana] gi 6143903 gb AAF04449.1 AC010718_18 (AC010718) 12-oxophytodienoate reductase (OPR2) [Arabidopsis thaliana]		

Seq. No.	45292	Seq. ID	OJ000251_34.0303.C29
Gene No.	95731	Strand	-
Start	7147	End	9240
Name	OJ000251_34.0303.C29.o1.tc	Method	TBLASTX:Cress
Start	7183	End	8378
GI	none	Score	102
Exons	7183..7497, 7186..7413, 7355..7420, 7501..7857, 7532..7846, 7870..7926, 7873..7941, 8025..8378, 8026..8376		

Seq. No.	45292	Seq. ID	OJ000251_34.0303.C29
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Gene No.	95731	Strand	-
Start	7147	End	9240
Name	OJ000251_34.0303.C29.o1.tw	Method	TBLASTX:Wheat
Start	7885	End	8349
GI	none	Score	58
Exons	7885..7929, 8031..8126, 8031..8348, 8032..8349		

Seq. No.	45293	Seq. ID	OJ000251_34.0303.C30
Gene No.	95732	Strand	-
Start	1407	End	2766
Name	OJ000251_34.0303.C30.o1.gp	Method	AAT/GAP
Start	1193	End	1948
GI	16410_2.R1084	Score	1360
Exons	1193..1948		
GI Descrip.	'3882356/gb AAC78441.1  2.0e-39 (U92460) 12-oxophytodienoate reductase OPR2 [Arabidopsis thaliana]'		

Seq. No.	45293	Seq. ID	OJ000251_34.0303.C30
Gene No.	95732	Strand	-
Start	1407	End	2766
Name	OJ000251_34.0303.C30.o1.gs	Method	GENSCAN
Start	1407	End	2669
GI	none	Score	.99
Exons	1407..2188, 2309..2669		

Seq. No.	45293	Seq. ID	OJ000251_34.0303.C30
Gene No.	95732	Strand	-
Start	1407	End	2766
Name	OJ000251_34.0303.C30.o1.np	Method	AAT/NAP
Start	1419	End	2669
GI	7449902	Score	1274
Exons	1419..2188, 2309..2669		
GI Descrip.	probable 12-oxophytodienoate reductase (EC 1.3.1.42) CPRD8, drought-inducible - cowpea gi 1854443 dbj BAA12160.1  (D83970) CPRD8 protein [Vigna unguiculata]		

Seq. No.	45293	Seq. ID	OJ000251_34.0303.C30
Gene No.	95732	Strand	-
Start	1407	End	2766
Name	OJ000251_34.0303.C30.o2.gp	Method	AAT/GAP
Start	2304	End	2766
GI	52613_1.R1084	Score	816
Exons	2304..2766		
GI Descrip.	'1001263/dbj BAA10507  2.0e-11 (D64003) hypothetical protein [Synechocystis sp.]'		

Seq. No.	45293	Seq. ID	OJ000251_34.0303.C30
Gene No.	95733	Strand	-
Start	3608	End	8683
Name	OJ000251_34.0303.C30.o2.np	Method	AAT/NAP
Start	3608	End	7838
GI	6539263	Score	537
Exons	3608..3645, 5135..5987, 6111..6464, 7764..7838		
GI Descrip.	(AC011765) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45293	Seq. ID	OJ000251_34.0303.C30
Gene No.	95733	Strand	-

Start 3608  
 Name OJ000251\_34.0303.C30.o2.gs  
 Start 5065  
 GI none  
 Exons 5065..5827, 5886..6487

End 8683  
 Method GENSCAN  
 End 6487  
 Score .51

Seq. No. 45293  
 Gene No. 95733  
 Start 3608  
 Name OJ000251\_34.0303.C30.o3.gs  
 Start 7667  
 GI none  
 Exons 7667..7851, 8593..8683

Seq. ID OJ000251\_34.0303.C30  
 Strand -  
 End 8683  
 Method GENSCAN  
 End 8683  
 Score .98

Seq. No. 45293  
 Gene No. 95734  
 Start 13833  
 Name OJ000251\_34.0303.C30.o1.tm  
 Start 1437  
 GI none  
 Exons 1437..1757, 1464..1781, 1721..1765, 1764..2114, 1771..2106, 2133..2204, 2146..2187, 2305..2418, 2310..2627, 2314..2619

Seq. ID OJ000251\_34.0303.C30  
 Strand -  
 End 15618  
 Method TBLASTX:Maize  
 End 2627  
 Score 182

Seq. No. 45293  
 Gene No. 95734  
 Start 13833  
 Name OJ000251\_34.0303.C30.o1.ts  
 Start 1440  
 GI none  
 Exons 1440..1757, 1446..1691, 1628..1753, 1722..1781, 1761..2114, 1765..2106, 2133..2186, 2134..2181, 2316..2627, 2317..2619

Seq. ID OJ000251\_34.0303.C30  
 Strand -  
 End 15618  
 Method TBLASTX:Soybean  
 End 2627  
 Score 97

Seq. No. 45293  
 Gene No. 95734  
 Start 13833  
 Name OJ000251\_34.0303.C30.o1.tc  
 Start 1443  
 GI none  
 Exons 1443..1757, 1446..1673, 1615..1680, 1761..2117, 1792..2106, 2133..2204, 2134..2181, 2307..2630, 2308..2619

Seq. ID OJ000251\_34.0303.C30  
 Strand -  
 End 15618  
 Method TBLASTX:Cress  
 End 2630  
 Score 98

Seq. No. 45293  
 Gene No. 95734  
 Start 13833  
 Name OJ000251\_34.0303.C30.o1.tw  
 Start 2145  
 GI none  
 Exons 2145..2189, 2308..2418, 2313..2486, 2313..2630, 2314..2619

Seq. ID OJ000251\_34.0303.C30  
 Strand -  
 End 15618  
 Method TBLASTX:Wheat  
 End 2630  
 Score 116

Seq. No. 45293  
 Gene No. 95734  
 Start 13833  
 Name OJ000251\_34.0303.C30.o2.tm  
 Start 5128  
 GI none  
 Exons 5128..5259, 5128..5259, 5271..5333, 5272..5529, 5299..5529

Seq. ID OJ000251\_34.0303.C30  
 Strand -  
 End 15618  
 Method TBLASTX:Maize  
 End 5529  
 Score 120

Seq. No.	45293	Seq. ID	OJ000251_34.0303.C30
Gene No.	95734	Strand	-
Start	13833	End	15618
Name	OJ000251_34.0303.C30.o2.ts	Method	TBLASTX:Soybean
Start	5299	End	6079
GI	none	Score	101
Exons	5299..5523, 5390..5524, 5557..5721, 5879..5965, 5996..6079		

Seq. No.	45293	Seq. ID	OJ000251_34.0303.C30
Gene No.	95734	Strand	-
Start	13833	End	15618
Name	OJ000251_34.0303.C30.o2.tc	Method	TBLASTX:Cress
Start	5368	End	6403
GI	none	Score	156
Exons	5368..5415, 5419..5529, 5560..5649, 5653..5811, 5656..5808, 5882..5986, 6005..6079, 6104..6223, 6107..6211, 6140..6403, 6185..6403		

Seq. No.	45293	Seq. ID	OJ000251_34.0303.C30
Gene No.	95734	Strand	-
Start	13833	End	15618
Name	OJ000251_34.0303.C30.o4.tm	Method	TBLASTX:Maize
Start	5548	End	6370
GI	none	Score	54
Exons	5548..5643, 5882..5986, 5918..5986, 5927..5965, 5981..6079, 5996..6079, 5996..6079, 5996..6079, 6096..6170, 6099..6308, 6099..6308, 6101..6346, 6104..6370, 6162..6335, 6166..6210, 6167..6367, 6197..6346, 6197..6337		

Seq. No.	45293	Seq. ID	OJ000251_34.0303.C30
Gene No.	95734	Strand	-
Start	13833	End	15618
Name	OJ000251_34.0303.C30.o3.tm	Method	TBLASTX:Maize
Start	13695	End	14016
GI	none	Score	39
Exons	13695..13751, 13702..13752, 13833..14015, 13849..14016		

Seq. No.	45293	Seq. ID	OJ000251_34.0303.C30
Gene No.	95734	Strand	-
Start	13833	End	15618
Name	OJ000251_34.0303.C30.o5.gs	Method	GENSCAN
Start	13833	End	14948
GI	none	Score	.83
Exons	13833..14098, 14765..14948		

Seq. No.	45293	Seq. ID	OJ000251_34.0303.C30
Gene No.	95734	Strand	-
Start	13833	End	15618
Name	OJ000251_34.0303.C30.o3.np	Method	AAT/NAP
Start	13845	End	15618
GI	5306253	Score	259
Exons	13845..14098, 14765..14861, 15592..15618		
GI Descrip.	(AC006438) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45293	Seq. ID	OJ000251_34.0303.C30
Gene No.	95734	Strand	-
Start	13833	End	15618

Name	OJ000251_34.0303.C30.o3.tc	Method	TBLASTX:Cress
Start	13858	End	14849
GI	none	Score	93
Exons	13858..14061, 13860..14060, 14061..14105, 14766..14849		

Seq. No.	45293	Seq. ID	OJ000251_34.0303.C30
Gene No.	95734	Strand	-
Start	13833	End	15618
Name	OJ000251_34.0303.C30.o3.ts	Method	TBLASTX:Soybean
Start	13858	End	14861
GI	none	Score	85
Exons	13858..13938, 13860..13946, 13941..14099, 13942..14019, 14047..14100, 14766..14861, 14775..14834		

Seq. No.	45294	Seq. ID	OJ000251_34.0303.C31
Gene No.	95735	Strand	+
Start	10069	End	12097
Name	OJ000251_34.0303.C31.o2.np	Method	AAT/NAP
Start	10069	End	12097
GI	7340909	Score	158
Exons	10069..10180, 11695..11848, 11970..12097		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	45294	Seq. ID	OJ000251_34.0303.C31
Gene No.	95736	Strand	-
Start	56	End	5777
Name	OJ000251_34.0303.C31.o1.np	Method	AAT/NAP
Start	56	End	5569
GI	5306252	Score	1171
Exons	56..223, 773..818, 900..975, 1576..1680, 2331..2383, 2475..2565, 2948..3448, 5399..5569		
GI Descrip.	(AC006438) putative cyclophilin-type peptidyl-prolyl cis-trans isomerase [Arabidopsis thaliana]		

Seq. No.	45294	Seq. ID	OJ000251_34.0303.C31
Gene No.	95736	Strand	-
Start	56	End	5777
Name	OJ000251_34.0303.C31.o1.gs	Method	GENSCAN
Start	546	End	5635
GI	none	Score	.93
Exons	546..569, 781..818, 900..975, 1576..1680, 2948..3448, 5399..5635		

Seq. No.	45294	Seq. ID	OJ000251_34.0303.C31
Gene No.	95736	Strand	-
Start	56	End	5777
Name	OJ000251_34.0303.C31.o1.gp	Method	AAT/GAP
Start	1586	End	3125
GI	2312727	Score	703
Exons	1586..1680, 2331..2383, 2478..2565, 2948..3125		
GI Descrip.	5306252/gb AAD41985.1 AC006438_17 1.0e-39 (AC006438) putative cyclophilin-type peptidyl-prolyl cis-trans isomerase [Arabidopsis thaliana]		

Seq. No.	45294	Seq. ID	OJ000251_34.0303.C31
Gene No.	95736	Strand	-
Start	56	End	5777
Name	OJ000251_34.0303.C31.o2.gp	Method	AAT/GAP

Start	5395	End	5777
GI	43975_1.R1084	Score	671
Exons	5395..5777		
GI Descrip.	'5306252/gb AAD41985.1 AC006438_17 1.0e-39 (AC006438) putative cyclophilin-type peptidyl-prolyl cis-trans isomerase [Arabidopsis thaliana]'		

Seq. No.	45294	Seq. ID	OJ000251_34.0303.C31
Gene No.	95737	Strand	-
Start	7450	End	12083
Name	OJ000251_34.0303.C31.o1.tm	Method	TBLASTX:Maize
Start	775	End	3370
GI	none	Score	51
Exons	775..816, 782..817, 900..977, 901..978, 1555..1629, 1561..1620, 1566..1679, 1574..1678, 1577..1681, 2331..2384, 2332..2388, 2333..2389, 2467..2574, 2473..2568, 2513..2572, 2945..3370, 2949..3368, 2963..3370		

Seq. No.	45294	Seq. ID	OJ000251_34.0303.C31
Gene No.	95737	Strand	-
Start	7450	End	12083
Name	OJ000251_34.0303.C31.o1.ts	Method	TBLASTX:Soybean
Start	3098	End	5500
GI	none	Score	117
Exons	3098..3448, 3170..3451, 5429..5500, 5430..5489		

Seq. No.	45294	Seq. ID	OJ000251_34.0303.C31
Gene No.	95737	Strand	-
Start	7450	End	12083
Name	OJ000251_34.0303.C31.o1.tc	Method	TBLASTX:Cress
Start	3101	End	5489
GI	none	Score	117
Exons	3101..3448, 3219..3350, 3320..3469, 5429..5485, 5430..5489		

Seq. No.	45294	Seq. ID	OJ000251_34.0303.C31
Gene No.	95737	Strand	-
Start	7450	End	12083
Name	OJ000251_34.0303.C31.o1.tw	Method	TBLASTX:Wheat
Start	3167	End	5564
GI	none	Score	110
Exons	3167..3448, 3219..3356, 5429..5557, 5429..5563, 5451..5564		

Seq. No.	45294	Seq. ID	OJ000251_34.0303.C31
Gene No.	95737	Strand	-
Start	7450	End	12083
Name	OJ000251_34.0303.C31.o2.tm	Method	TBLASTX:Maize
Start	3413	End	5738
GI	none	Score	193
Exons	3413..3448, 5393..5566, 5414..5557, 5418..5567, 5451..5567, 5694..5738		

Seq. No.	45294	Seq. ID	OJ000251_34.0303.C31
Gene No.	95737	Strand	-
Start	7450	End	12083
Name	OJ000251_34.0303.C31.o2.gs	Method	GENSCAN
Start	7450	End	12083
GI	none	Score	.47

Exons 7450..7477, 7565..7749, 9074..9235, 9773..9831, 10621..10712, 11791..12083

Seq. No.	45295	Seq. ID	OJ000251_34.0303.C32
Gene No.	95738	Strand	+
Start	139	End	536
Name	OJ000251_34.0303.C32.o1.gs	Method	GENSCAN
Start	139	End	536
GI	none	Score	.99
Exons	139..145, 352..536		

Seq. No.	45295	Seq. ID	OJ000251_34.0303.C32
Gene No.	95739	Strand	+
Start	1285	End	6616
Name	OJ000251_34.0303.C32.o3.gs	Method	GENSCAN
Start	1285	End	6616
GI	none	Score	.74
Exons	1285..1536, 1631..1841, 1988..2036, 2377..2452, 4621..4691, 4974..5026, 5371..5518, 6541..6616		

Seq. No.	45295	Seq. ID	OJ000251_34.0303.C32
Gene No.	95740	Strand	-
Start	1	End	1282
Name	OJ000251_34.0303.C32.o1.np	Method	AAT/NAP
Start	1	End	1282
GI	7340909	Score	93
Exons	1..49, 122..286, 979..1282		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	45295	Seq. ID	OJ000251_34.0303.C32
Gene No.	95740	Strand	-
Start	1	End	1282
Name	OJ000251_34.0303.C32.o2.gs	Method	GENSCAN
Start	749	End	1010
GI	none	Score	1
Exons	749..948, 953..1010		

Seq. No.	45295	Seq. ID	OJ000251_34.0303.C32
Gene No.	95741	Strand	-
Start	7480	End	8781
Name	OJ000251_34.0303.C32.o4.gs	Method	GENSCAN
Start	7480	End	7963
GI	none	Score	.63
Exons	7480..7501, 7627..7778, 7922..7963		

Seq. No.	45295	Seq. ID	OJ000251_34.0303.C32
Gene No.	95741	Strand	-
Start	7480	End	8781
Name	OJ000251_34.0303.C32.o2.np	Method	AAT/NAP
Start	7605	End	8781
GI	5295978	Score	112
Exons	7605..7778, 7922..7965, 8720..8781		
GI Descrip.	(AB003322) MADS box-like protein [Oryza sativa]		

Seq. No.	45296	Seq. ID	OJ000251_34.0303.C33
Gene No.	95742	Strand	-
Start	354	End	2991



Name	OJ000251_34.0303.C33.o1.gs	Method	GENSCAN
Start	354	End	1830
GI	none	Score	.73
Exons	354..489, 1615..1735, 1821..1830		

Seq. No.	45296	Seq. ID	OJ000251_34.0303.C33
Gene No.	95742	Strand	-
Start	354	End	2991
Name	OJ000251_34.0303.C33.o1.np	Method	AAT/NAP
Start	1132	End	2991
GI	5295978	Score	165
Exons	1132..1156, 2522..2589, 2689..2788, 2902..2991		
GI Descrip.	(AB003322) MADS box-like protein [Oryza sativa]		

Seq. No.	45297	Seq. ID	OJ000251_30.0303.C4
Gene No.	95743	Strand	+
Start	352	End	3138
Name	OJ000251_30.0303.C4.o1.np	Method	AAT/NAP
Start	352	End	2976
GI	7486560	Score	328
Exons	352..636, 2063..2164, 2549..2658, 2744..2792, 2884..2976		
GI Descrip.	hypothetical protein F6N23.3 - Arabidopsis thaliana gi 3047124 gb AAC13635.1  (AF058919) F6N23.3 gene product [Arabidopsis thaliana] gi 7267391 emb CAB80861.1  (AL161472) putative acetyl CoA thioesterase [Arabidopsis thaliana]		

Seq. No.	45297	Seq. ID	OJ000251_30.0303.C4
Gene No.	95743	Strand	+
Start	352	End	3138
Name	OJ000251_30.0303.C4.o1.gp	Method	AAT/GAP
Start	488	End	585
GI	LIB3431-006-P1-K1-C11	Score	173
Exons	488..585		
GI Descrip.	'3047124 5.0e-14 (AF058919) No definition line found [Arabidopsis thaliana]'		

Seq. No.	45297	Seq. ID	OJ000251_30.0303.C4
Gene No.	95743	Strand	+
Start	352	End	3138
Name	OJ000251_30.0303.C4.o1.gs	Method	GENSCAN
Start	488	End	3138
GI	none	Score	.57
Exons	488..615, 1542..1604, 2522..2556, 2744..2792, 3052..3138		

Seq. No.	45297	Seq. ID	OJ000251_30.0303.C4
Gene No.	95743	Strand	+
Start	352	End	3138
Name	OJ000251_30.0303.C4.o2.gp	Method	AAT/GAP
Start	1563	End	2947
GI	25534_1.R1084	Score	784
Exons	1563..1604, 1676..1731, 2068..2160, 2424..2480, 2557..2658, 2744..2792, 2884..2947		
GI Descrip.	'3047124 6.0e-26 (AF058919) No definition line found [Arabidopsis thaliana]'		

Seq. No.	45297	Seq. ID	OJ000251_30.0303.C4
Gene No.	95744	Strand	+

Start	3212	End	3408
Name	OJ000251_30.0303.C4.o3.gp	Method	AAT/GAP
Start	3212	End	3408
GI	569033	Score	318
Exons	3212..3408		

Seq. No.	45297	Seq. ID	OJ000251_30.0303.C4
Gene No.	95745	Strand	+
Start	10059	End	11219
Name	OJ000251_30.0303.C4.o2.ts	Method	TBLASTX:Soybean
Start	489	End	2976
GI	none	Score	138
Exons	489..596, 490..597, 496..600, 2072..2161, 2421..2483, 2422..2490, 2552..2659, 2554..2658, 2745..2795, 2884..2976		

Seq. No.	45297	Seq. ID	OJ000251_30.0303.C4
Gene No.	95745	Strand	+
Start	10059	End	11219
Name	OJ000251_30.0303.C4.o2.tm	Method	TBLASTX:Maize
Start	1548	End	3105
GI	none	Score	58
Exons	1548..1604, 1558..1599, 1673..1735, 1674..1751, 2069..2158, 2069..2158, 2071..2163, 2071..2160, 2421..2483, 2422..2490, 2552..2659, 2552..2656, 2554..2658, 2714..2791, 2718..2795, 2747..2797, 2882..2950, 2883..2951, 2883..2954, 2884..2955, 3025..3096, 3073..3105		

Seq. No.	45297	Seq. ID	OJ000251_30.0303.C4
Gene No.	95745	Strand	+
Start	10059	End	11219
Name	OJ000251_30.0303.C4.o2.np	Method	AAT/NAP
Start	9730	End	11219
GI	7435661	Score	702
Exons	9730..9923, 10305..10711, 10742..11219		
GI Descrip.	subtilisin-like proteinase (EC 3.4.21.-) p69f - tomato gi 3183991 emb CAA06414.1  (AJ005173) P69F protein [Lycopersicon esculentum]		

Seq. No.	45297	Seq. ID	OJ000251_30.0303.C4
Gene No.	95745	Strand	+
Start	10059	End	11219
Name	OJ000251_30.0303.C4.o4.gp	Method	AAT/GAP
Start	10046	End	10561
GI	uC-osflM202020d11b1	Score	975
Exons	10046..10561		
GI Descrip.	'3183979/emb CAA06412.1  2.0e-10 (AJ005171) P69C protein [Lycopersicon esculentum]'		

Seq. No.	45297	Seq. ID	OJ000251_30.0303.C4
Gene No.	95745	Strand	+
Start	10059	End	11219
Name	OJ000251_30.0303.C4.o3.gs	Method	GENSCAN
Start	10059	End	11186
GI	none	Score	.95
Exons	10059..11186		

Seq. No.	45297	Seq. ID	OJ000251_30.0303.C4
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Gene No.	95745	Strand	+
Start	10059	End	11219
Name	OJ000251_30.0303.C4.o1.tc	Method	TBLASTX:Cress
Start	10314	End	11210
GI	none	Score	114
Exons	10314..10478, 10647..10697, 10745..10885, 10746..10895, 10902..11009, 10998..11210, 11108..11206		

Seq. No.	45297	Seq. ID	OJ000251_30.0303.C4
Gene No.	95745	Strand	+
Start	10059	End	11219
Name	OJ000251_30.0303.C4.o1.ts	Method	TBLASTX:Soybean
Start	10323	End	11210
GI	none	Score	105
Exons	10323..10478, 10593..10649, 10647..10697, 10764..10823, 10766..10822, 10817..10888, 10824..10892, 10902..10982, 10998..11210, 11108..11209		

Seq. No.	45297	Seq. ID	OJ000251_30.0303.C4
Gene No.	95745	Strand	+
Start	10059	End	11219
Name	OJ000251_30.0303.C4.o1.tm	Method	TBLASTX:Maize
Start	10721	End	11219
GI	none	Score	576
Exons	10721..10906, 10722..11135, 10920..11057, 11148..11219, 11156..11218		

Seq. No.	45297	Seq. ID	OJ000251_30.0303.C4
Gene No.	95745	Strand	+
Start	10059	End	11219
Name	OJ000251_30.0303.C4.o1.tw	Method	TBLASTX:Wheat
Start	10827	End	11210
GI	none	Score	69
Exons	10827..10892, 10899..10982, 10989..11210, 11021..11200		

Seq. No.	45298	Seq. ID	OJ000251_30.0303.C5
Gene No.	95746	Strand	+
Start	69	End	868
Name	OJ000251_30.0303.C5.o1.gs	Method	GENSCAN
Start	69	End	868
GI	none	Score	.82
Exons	69..868		

Seq. No.	45298	Seq. ID	OJ000251_30.0303.C5
Gene No.	95747	Strand	-
Start	809	End	1166
Name	OJ000251_30.0303.C5.o1.gp	Method	AAT/GAP
Start	809	End	1166
GI	2428668	Score	677
Exons	809..1166		

Seq. No.	45298	Seq. ID	OJ000251_30.0303.C5
Gene No.	95748	Strand	-
Start	2902	End	4288
Name	OJ000251_30.0303.C5.o1.tc	Method	TBLASTX:Cress
Start	4	End	4287
GI	none	Score	103

Exons 4..90, 5..91, 119..307, 145..267, 311..460, 515..550, 578..793,  
3190..3291, 3292..3405, 3418..3576, 3419..3574, 3604..3948,  
3608..3862, 3972..4055, 4056..4286, 4165..4287

Seq. No.	45298	Seq. ID	OJ000251_30.0303.C5
Gene No.	95748	Strand	-
Start	2902	End	4288
Name	OJ000251_30.0303.C5.o2.tm	Method	TBLASTX:Maize
Start	4	End	4287
GI	none	Score	117
Exons	4..138, 11..91, 3622..3675, 3625..3939, 3626..3880, 3969..4001, 4089..4286, 4099..4287, 4153..4287		

Seq. No.	45298	Seq. ID	OJ000251_30.0303.C5
Gene No.	95748	Strand	-
Start	2902	End	4288
Name	OJ000251_30.0303.C5.o1.ts	Method	TBLASTX:Soybean
Start	4	End	4286
GI	none	Score	108
Exons	4..156, 5..103, 146..268, 151..267, 311..460, 482..682, 689..793, 3184..3291, 3290..3385, 3292..3405, 3418..3576, 3455..3577, 3592..3948, 3608..3862, 3972..4055, 4056..4286		

Seq. No.	45298	Seq. ID	OJ000251_30.0303.C5
Gene No.	95748	Strand	-
Start	2902	End	4288
Name	OJ000251_30.0303.C5.o2.tw	Method	TBLASTX:Wheat
Start	5	End	3729
GI	none	Score	44
Exons	5..79, 145..294, 146..295, 3430..3591, 3443..3586, 3625..3693, 3643..3729		

Seq. No.	45298	Seq. ID	OJ000251_30.0303.C5
Gene No.	95748	Strand	-
Start	2902	End	4288
Name	OJ000251_30.0303.C5.o1.tm	Method	TBLASTX:Maize
Start	145	End	3576
GI	none	Score	778
Exons	145..306, 146..793, 349..792, 785..814, 787..897, 3083..3133, 3190..3255, 3289..3405, 3292..3576, 3296..3571		

Seq. No.	45298	Seq. ID	OJ000251_30.0303.C5
Gene No.	95748	Strand	-
Start	2902	End	4288
Name	OJ000251_30.0303.C5.o1.np	Method	AAT/NAP
Start	2902	End	4288
GI	3413481	Score	1004
Exons	2902..4288		
GI Descrip.	(AJ006786) serine protease [Lycopersicon esculentum]		

Seq. No.	45298	Seq. ID	OJ000251_30.0303.C5
Gene No.	95748	Strand	-
Start	2902	End	4288
Name	OJ000251_30.0303.C5.o2.gs	Method	GENSCAN
Start	2902	End	4277
GI	none	Score	.97
Exons	2902..3993, 3999..4277		

Seq. No.	45298	Seq. ID	OJ000251_30.0303.C5
Gene No.	95748	Strand	-
Start	2902	End	4288
Name	OJ000251_30.0303.C5.o1.tw	Method	TBLASTX:Wheat
Start	4032	End	4287
GI	none	Score	62
Exons	4032..4286, 4165..4287		

Seq. No.	45299	Seq. ID	OJ000251_30.0303.C6
Gene No.	95749	Strand	+
Start	7931	End	12275
Name	OJ000251_30.0303.C6.o3.gs	Method	GENSCAN
Start	7931	End	12271
GI	none	Score	.88
Exons	7931..7963, 9019..9311, 9376..9454, 10163..10553, 10655..10775, 10880..11034, 11130..12271		

Seq. No.	45299	Seq. ID	OJ000251_30.0303.C6
Gene No.	95749	Strand	+
Start	7931	End	12275
Name	OJ000251_30.0303.C6.o2.np	Method	AAT/NAP
Start	10169	End	12275
GI	7486457	Score	818
Exons	10169..10433, 10640..11005, 11113..11204, 11300..11596, 11723..12055, 12155..12275		
GI Descrip.	hypothetical protein F4I18.13 - Arabidopsis thaliana gi 3386605 gb AAC28535.1  (AC004665) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45299	Seq. ID	OJ000251_30.0303.C6
Gene No.	95750	Strand	+
Start	18267	End	21937
Name	OJ000251_30.0303.C6.o5.gs	Method	GENSCAN
Start	18267	End	21937
GI	none	Score	.58
Exons	18267..18423, 20060..20253, 21031..21114, 21437..21937		

Seq. No.	45299	Seq. ID	OJ000251_30.0303.C6
Gene No.	95751	Strand	+
Start	23135	End	23612
Name	OJ000251_30.0303.C6.o4.gp	Method	AAT/GAP
Start	23135	End	23612
GI	2799050	Score	805
Exons	23135..23612		
GI Descrip.	1698774/gb U70311 CVU70311 1.0e-20 Filamentous phage display expression cloning vector pZGT5 with murine Ig kappa light chain fragment insert, complete sequence		

Seq. No.	45299	Seq. ID	OJ000251_30.0303.C6
Gene No.	95752	Strand	-
Start	1	End	469
Name	OJ000251_30.0303.C6.o1.np	Method	AAT/NAP
Start	1	End	454
GI	7435659	Score	161
Exons	1..97, 124..454		
GI Descrip.	subtilisin-like proteinase (EC 3.4.21.-) - tomato		

gi|3183979|emb|CAA06412.1| (AJ005171) P69C protein [Lycopersicon  
esculentum]

Seq. No.	45299	Seq. ID	OJ000251_30.0303.C6
Gene No.	95752	Strand	-
Start	1	End	469
Name	OJ000251_30.0303.C6.o1.gs	Method	GENSCAN
Start	38	End	469
GI	none	Score	.66
Exons	38..469		

Seq. No.	45299	Seq. ID	OJ000251_30.0303.C6
Gene No.	95753	Strand	-
Start	1560	End	1775
Name	OJ000251_30.0303.C6.o2.gs	Method	GENSCAN
Start	1560	End	1775
GI	none	Score	.46
Exons	1560..1775		

Seq. No.	45299	Seq. ID	OJ000251_30.0303.C6
Gene No.	95754	Strand	-
Start	6661	End	6741
Name	OJ000251_30.0303.C6.o1.gp	Method	AAT/GAP
Start	6661	End	6741
GI	38012_1.R1084	Score	103
Exons	6661..6741		
GI Descrip.	'4097947/gb U72255 OSU72255 2.0e-23 Oryza sativa beta-1,3-glucanase precursor (Gns9) gene, complete cds'		

Seq. No.	45299	Seq. ID	OJ000251_30.0303.C6
Gene No.	95755	Strand	-
Start	12577	End	16705
Name	OJ000251_30.0303.C6.o2.gp	Method	AAT/GAP
Start	12577	End	13101
GI	3767768	Score	981
Exons	12577..13101		

Seq. No.	45299	Seq. ID	OJ000251_30.0303.C6
Gene No.	95755	Strand	-
Start	12577	End	16705
Name	OJ000251_30.0303.C6.o4.gs	Method	GENSCAN
Start	12979	End	16705
GI	none	Score	.96
Exons	12979..13556, 13682..13928, 14018..14112, 14193..15663, 16417..16469, 16570..16705		

Seq. No.	45299	Seq. ID	OJ000251_30.0303.C6
Gene No.	95755	Strand	-
Start	12577	End	16705
Name	OJ000251_30.0303.C6.o3.gp	Method	AAT/GAP
Start	13114	End	14065
GI	23314_1.R1084	Score	1413
Exons	13114..13556, 13682..13928, 14018..14065		
GI Descrip.	'1698774/gb U70311 CVU70311 1.0e-20 Filamentous phage display expression cloning vector pZGT5 with murine Ig kappa light chain fragment insert, complete sequence'		

Seq. No.	45299	Seq. ID	OJ000251_30.0303.C6
Gene No.	95756	Strand	-
Start	23493	End	27269
Name	OJ000251_30.0303.C6.o6.gs	Method	GENSCAN
Start	23493	End	27269
GI	none	Score	.81
Exons	23493..23610, 24033..24145, 24467..24562, 24920..25036, 25229..25357, 25409..25540, 25621..25797, 25933..26105, 26560..26646, 26768..27269		

Seq. No.	45299	Seq. ID	OJ000251_30.0303.C6
Gene No.	95756	Strand	-
Start	23493	End	27269
Name	OJ000251_30.0303.C6.o3.np	Method	AAT/NAP
Start	23496	End	26681
GI	6319167	Score	973
Exons	23496..23610, 24033..24145, 24467..24562, 24920..25036, 25229..25327, 25409..25540, 25621..25797, 25933..26105, 26573..26681		

GI Descrip. (AF193846) branched-chain amino acid aminotransferase [*Solanum tuberosum*]

Seq. No.	45299	Seq. ID	OJ000251_30.0303.C6
Gene No.	95757	Strand	-
Start	27801	End	27893
Name	OJ000251_30.0303.C6.o3.ts	Method	TBLASTX:Soybean
Start	10635	End	11007
GI	none	Score	148
Exons	10635..10766, 10648..10767, 10876..11007		

Seq. No.	45299	Seq. ID	OJ000251_30.0303.C6
Gene No.	95757	Strand	-
Start	27801	End	27893
Name	OJ000251_30.0303.C6.o5.tm	Method	TBLASTX:Maize
Start	10651	End	11037
GI	none	Score	161
Exons	10651..10767, 10654..10722, 10665..10766, 10878..10970, 10879..10971, 10975..11037, 10980..11033		

Seq. No.	45299	Seq. ID	OJ000251_30.0303.C6
Gene No.	95757	Strand	-
Start	27801	End	27893
Name	OJ000251_30.0303.C6.o3.tm	Method	TBLASTX:Maize
Start	11295	End	11536
GI	none	Score	107
Exons	11295..11336, 11299..11388, 11300..11362, 11386..11502, 11387..11536, 11423..11536		

Seq. No.	45299	Seq. ID	OJ000251_30.0303.C6
Gene No.	95757	Strand	-
Start	27801	End	27893
Name	OJ000251_30.0303.C6.o3.tc	Method	TBLASTX:Cress
Start	11300	End	11596
GI	none	Score	54
Exons	11300..11344, 11396..11596, 11416..11595		

Seq. No.	45299	Seq. ID	OJ000251_30.0303.C6
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Gene No.	95757	Strand	-
Start	27801	End	27893
Name	OJ000251_30.0303.C6.o2.tc	Method	TBLASTX:Cress
Start	11717	End	12063
GI	none	Score	245
Exons	11717..11935, 11719..11934, 11939..12058, 11941..12063		

Seq. No.	45299	Seq. ID	OJ000251_30.0303.C6
Gene No.	95757	Strand	-
Start	27801	End	27893
Name	OJ000251_30.0303.C6.o2.ts	Method	TBLASTX:Soybean
Start	11741	End	12264
GI	none	Score	203
Exons	11741..11935, 11744..11935, 11939..12055, 11941..12051, 12152..12256, 12154..12264		

Seq. No.	45299	Seq. ID	OJ000251_30.0303.C6
Gene No.	95757	Strand	-
Start	27801	End	27893
Name	OJ000251_30.0303.C6.o2.tm	Method	TBLASTX:Maize
Start	11867	End	12261
GI	none	Score	51
Exons	11867..11893, 11867..11911, 11902..12057, 11903..12055, 12145..12252, 12152..12259, 12152..12250, 12154..12261		

Seq. No.	45299	Seq. ID	OJ000251_30.0303.C6
Gene No.	95757	Strand	-
Start	27801	End	27893
Name	OJ000251_30.0303.C6.o4.tm	Method	TBLASTX:Maize
Start	13000	End	13787
GI	none	Score	71
Exons	13000..13146, 13015..13143, 13141..13458, 13160..13462, 13704..13787		

Seq. No.	45299	Seq. ID	OJ000251_30.0303.C6
Gene No.	95757	Strand	-
Start	27801	End	27893
Name	OJ000251_30.0303.C6.o1.tw	Method	TBLASTX:Wheat
Start	13160	End	13459
GI	none	Score	71
Exons	13160..13459, 13162..13458		

Seq. No.	45299	Seq. ID	OJ000251_30.0303.C6
Gene No.	95757	Strand	-
Start	27801	End	27893
Name	OJ000251_30.0303.C6.o1.tm	Method	TBLASTX:Maize
Start	23475	End	26104
GI	none	Score	99
Exons	23475..23609, 23489..23608, 23491..23613, 23496..23612, 24032..24151, 24032..24151, 24464..24574, 24465..24575, 24912..25004, 24920..25027, 25223..25336, 25272..25328, 25403..25540, 25404..25541, 25407..25541, 25618..25842, 25619..25825, 25930..26088, 25933..26103, 25937..26104		

Seq. No.	45299	Seq. ID	OJ000251_30.0303.C6
Gene No.	95757	Strand	-
Start	27801	End	27893



Name	OJ000251_30.0303.C6.o1.ts	Method	TBLASTX:Soybean
Start	23493	End	25825
GI	none	Score	68
Exons	23493..23582, 24032..24151, 24033..24149, 24077..24169, 24464..24574, 24920..25027, 25223..25336, 25386..25541, 25391..25540, 25618..25797, 25619..25825		

Seq. No.	45299	Seq. ID	OJ000251_30.0303.C6
Gene No.	95757	Strand	-
Start	27801	End	27893
Name	OJ000251_30.0303.C6.o1.tc	Method	TBLASTX:Cress
Start	25235	End	26112
GI	none	Score	118
Exons	25235..25318, 25400..25540, 25422..25538, 25618..25818, 25628..25801, 25933..26112		

Seq. No.	45299	Seq. ID	OJ000251_30.0303.C6
Gene No.	95757	Strand	-
Start	27801	End	27893
Name	OJ000251_30.0303.C6.o4.ts	Method	TBLASTX:Soybean
Start	25933	End	26104
GI	none	Score	108
Exons	25933..26103, 25934..26104		

Seq. No.	45299	Seq. ID	OJ000251_30.0303.C6
Gene No.	95757	Strand	-
Start	27801	End	27893
Name	OJ000251_30.0303.C6.o5.gp	Method	AAT/GAP
Start	27801	End	27893
GI	LIB3477-003-P1-K1-E9	Score	91
Exons	27801..27893		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	45300	Seq. ID	OJ000251_30.0303.C8
Gene No.	95758	Strand	+
Start	612	End	6300
Name	OJ000251_30.0303.C8.o1.gs	Method	GENSCAN
Start	612	End	6300
GI	none	Score	.55
Exons	612..696, 1412..1678, 1794..1982, 2652..2757, 3856..3969, 4505..4615, 4805..5071, 5860..6300		

Seq. No.	45300	Seq. ID	OJ000251_30.0303.C8
Gene No.	95758	Strand	+
Start	612	End	6300
Name	OJ000251_30.0303.C8.o1.np	Method	AAT/NAP
Start	4478	End	5908
GI	6907088	Score	1156
Exons	4478..4615, 4791..5029, 5522..5908		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	45301	Seq. ID	OJ000251_30.0303.C9
Gene No.	95759	Strand	+
Start	2275	End	4590
Name	OJ000251_30.0303.C9.o1.gs	Method	GENSCAN

Start	2275	End	4590
GI	none	Score	.93
Exons	2275..2904, 3008..3148, 3710..3766, 4257..4319, 4561..4590		

Seq. No.	45301	Seq. ID	OJ000251_30.0303.C9
Gene No.	95759	Strand	+
Start	2275	End	4590
Name	OJ000251_30.0303.C9.o1.np	Method	AAT/NAP
Start	2275	End	3802
GI	4388774	Score	1342
Exons	2275..2904, 3008..3148, 3710..3802		
GI Descrip.	(X76911) transmembrane protein [Hordeum vulgare]		

Seq. No.	45301	Seq. ID	OJ000251_30.0303.C9
Gene No.	95759	Strand	+
Start	2275	End	4590
Name	OJ000251_30.0303.C9.o1.gp	Method	AAT/GAP
Start	2540	End	4043
GI	43_3.R1084	Score	1501
Exons	2540..2904, 3008..3148, 3710..4043		
GI Descrip.	'4768911/gb AAD29676.1 AF131201_1 2.0e-92 (AF131201) plasma membrane MIP protein [Zea mays]'		

Seq. No.	45301	Seq. ID	OJ000251_30.0303.C9
Gene No.	95760	Strand	+
Start	4949	End	5365
Name	OJ000251_30.0303.C9.o2.gp	Method	AAT/GAP
Start	4949	End	5365
GI	4715353	Score	794
Exons	4949..5365		

Seq. No.	45301	Seq. ID	OJ000251_30.0303.C9
Gene No.	95761	Strand	-
Start	4755	End	9725
Name	OJ000251_30.0303.C9.o1.tc	Method	TBLASTX:Cress
Start	2271	End	3805
GI	none	Score	54
Exons	2271..2342, 2275..2388, 2313..2348, 2362..2916, 2418..2741, 2757..2915, 3007..3081, 3008..3148, 3017..3148, 3103..3153, 3127..3153, 3668..3793, 3700..3804, 3710..3805		

Seq. No.	45301	Seq. ID	OJ000251_30.0303.C9
Gene No.	95761	Strand	-
Start	4755	End	9725
Name	OJ000251_30.0303.C9.o1.tm	Method	TBLASTX:Maize
Start	2275	End	3974
GI	none	Score	1050
Exons	2275..2916, 2313..2354, 2418..2915, 3006..3107, 3006..3152, 3008..3148, 3103..3153, 3677..3805, 3685..3804, 3710..3841, 3936..3968, 3945..3974		

Seq. No.	45301	Seq. ID	OJ000251_30.0303.C9
Gene No.	95761	Strand	-
Start	4755	End	9725
Name	OJ000251_30.0303.C9.o1.ts	Method	TBLASTX:Soybean
Start	2275	End	3100
GI	none	Score	943

Exons 2275..2916, 2313..2351, 2418..2915, 3007..3081, 3008..3100

Seq. No. 45301 Seq. ID OJ000251\_30.0303.C9  
Gene No. 95761 Strand -  
Start 4755 End 9725  
Name OJ000251\_30.0303.C9.o1.tw Method TBLASTX:Wheat  
Start 2365 End 9593  
GI none Score 164  
Exons 2365..2517, 2421..2507, 2502..2915, 2503..2916, 3008..3145,  
3027..3152, 3707..3730, 3728..3796, 9519..9593

Seq. No. 45301 Seq. ID OJ000251\_30.0303.C9  
Gene No. 95761 Strand -  
Start 4755 End 9725  
Name OJ000251\_30.0303.C9.o2.np Method AAT/NAP  
Start 4755 End 9725  
GI 6456172 Score 1579  
Exons 4755..4778, 6366..6599, 6871..6962, 7055..7291, 7578..7685,  
7778..7837, 8164..8239, 8335..8495, 8725..8787, 8894..8981,  
9223..9725

GI Descrip. (AC011622) putative protein kinase [Arabidopsis thaliana]

Seq. No. 45301 Seq. ID OJ000251\_30.0303.C9  
Gene No. 95761 Strand -  
Start 4755 End 9725  
Name OJ000251\_30.0303.C9.o2.gs Method GENSCAN  
Start 6086 End 9470  
GI none Score .78  
Exons 6086..6409, 7055..7291, 8164..8239, 8335..8495, 8725..8787,  
8894..8981, 9223..9470

Seq. No. 45301 Seq. ID OJ000251\_30.0303.C9  
Gene No. 95761 Strand -  
Start 4755 End 9725  
Name OJ000251\_30.0303.C9.o2.tm Method TBLASTX:Maize  
Start 6089 End 6601  
GI none Score 64  
Exons 6089..6151, 6093..6149, 6093..6173, 6143..6232, 6151..6234,  
6231..6566, 6233..6565, 6568..6600, 6569..6601

Seq. No. 45301 Seq. ID OJ000251\_30.0303.C9  
Gene No. 95761 Strand -  
Start 4755 End 9725  
Name OJ000251\_30.0303.C9.o3.gp Method AAT/GAP  
Start 6197 End 6981  
GI 62012\_1.R1084 Score 820  
Exons 6197..6599, 6871..6981  
GI Descrip. '4204912 1.0e-29 (U58918) MEK kinase [Arabidopsis thaliana]'

Seq. No. 45301 Seq. ID OJ000251\_30.0303.C9  
Gene No. 95761 Strand -  
Start 4755 End 9725  
Name OJ000251\_30.0303.C9.o3.tm Method TBLASTX:Maize  
Start 7047 End 8472  
GI none Score 142  
Exons 7047..7223, 7051..7194, 7052..7195, 7172..7291, 7196..7312,  
7197..7355, 7564..7686, 7572..7688, 7742..7840, 7767..7841,

7775..7837, 8158..8241, 8159..8242, 8334..8471, 8335..8472

Seq. No.	45301	Seq. ID	OJ000251_30.0303.C9
Gene No.	95761	Strand	-
Start	4755	End	9725
Name	OJ000251_30.0303.C9.o3.tc	Method	TBLASTX:Cress
Start	7106	End	8935
GI	none	Score	70
Exons	7106..7312, 7130..7291, 7146..7355, 7566..7688, 7567..7686, 7775..7813, 7776..7814, 8122..8241, 8158..8241, 8159..8242, 8327..8473, 8334..8492, 8335..8472, 8728..8796, 8894..8935		

Seq. No.	45301	Seq. ID	OJ000251_30.0303.C9
Gene No.	95761	Strand	-
Start	4755	End	9725
Name	OJ000251_30.0303.C9.o2.ts	Method	TBLASTX:Soybean
Start	7136	End	9001
GI	none	Score	96
Exons	7136..7291, 7146..7289, 7565..7687, 7566..7688, 7576..7686, 7577..7687, 7764..7844, 7775..7837, 8149..8241, 8150..8242, 8334..8492, 8335..8493, 8699..8791, 8728..8796, 8894..9001, 8901..8987		

Seq. No.	45301	Seq. ID	OJ000251_30.0303.C9
Gene No.	95761	Strand	-
Start	4755	End	9725
Name	OJ000251_30.0303.C9.o4.gp	Method	AAT/GAP
Start	8398	End	9429
GI	4715352	Score	814
Exons	8398..8495, 8725..8787, 8894..8981, 9223..9429		
GI Descrip.	4204912 1.0e-29 (U58918) MEK kinase [Arabidopsis thaliana]		

Seq. No.	45301	Seq. ID	OJ000251_30.0303.C9
Gene No.	95761	Strand	-
Start	4755	End	9725
Name	OJ000251_30.0303.C9.o2.tc	Method	TBLASTX:Cress
Start	8937	End	9584
GI	none	Score	68
Exons	8937..8987, 8942..8983, 9223..9339, 9223..9294, 9225..9338, 9371..9583, 9423..9584, 9423..9584		

Seq. No.	45301	Seq. ID	OJ000251_30.0303.C9
Gene No.	95761	Strand	-
Start	4755	End	9725
Name	OJ000251_30.0303.C9.o3.ts	Method	TBLASTX:Soybean
Start	9223	End	9545
GI	none	Score	78
Exons	9223..9321, 9225..9359, 9438..9545		

Seq. No.	45302	Seq. ID	OJ000251_30.0303.C10
Gene No.	95762	Strand	-
Start	1	End	501
Name	OJ000251_30.0303.C10.o1.np	Method	AAT/NAP
Start	1	End	501
GI	6456172	Score	216
Exons	1..501		
GI Descrip.	(AC011622) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	45302	Seq. ID	OJ000251_30.0303.C10
Gene No.	95763	Strand	-
Start	6063	End	8880
Name	OJ000251_30.0303.C10.o2.gs	Method	GENSCAN
Start	6063	End	6541
GI	none	Score	.6
Exons	6063..6231, 6324..6375, 6463..6541		

Seq. No.	45302	Seq. ID	OJ000251_30.0303.C10
Gene No.	95763	Strand	-
Start	6063	End	8880
Name	OJ000251_30.0303.C10.o2.np	Method	AAT/NAP
Start	6210	End	8880
GI	5915846	Score	1809
Exons	6210..6293, 7282..8880		
GI Descrip.	CYTOCHROME P450 86A2 gi 7430724 pir  T01535 probable cytochrome P450 A_IG005I10.21 - Arabidopsis thaliana gi 2252844 gb AAB62843.1  (AF013293) belongs to the cytochrome p450 family [Arabidopsis thaliana] gi 6049886 gb AAF02801.1 AF195115 21 (AF195115) belongs to the cytochrome p450 family [Arabidopsis thaliana] gi 7267123 emb CAB80794.1  (AL161471) probable cytochr		

Seq. No.	45302	Seq. ID	OJ000251_30.0303.C10
Gene No.	95763	Strand	-
Start	6063	End	8880
Name	OJ000251_30.0303.C10.o3.gs	Method	GENSCAN
Start	7243	End	8880
GI	none	Score	.66
Exons	7243..8880		

Seq. No.	45302	Seq. ID	OJ000251_30.0303.C10
Gene No.	95763	Strand	-
Start	6063	End	8880
Name	OJ000251_30.0303.C10.o1.ts	Method	TBLASTX:Soybean
Start	7297	End	8880
GI	none	Score	462
Exons	7297..7782, 7313..7741, 7822..7998, 7823..8023, 7993..8025, 8053..8352, 8090..8320, 8389..8880, 8393..8827		

Seq. No.	45302	Seq. ID	OJ000251_30.0303.C10
Gene No.	95763	Strand	-
Start	6063	End	8880
Name	OJ000251_30.0303.C10.o1.tc	Method	TBLASTX:Cress
Start	7324	End	8835
GI	none	Score	165
Exons	7324..7530, 7325..7531, 7531..7680, 7532..7681, 7685..7738, 7687..7782, 7822..7971, 7823..7960, 7993..8046, 7994..8029, 8077..8349, 8111..8320, 8392..8835, 8429..8812		

Seq. No.	45302	Seq. ID	OJ000251_30.0303.C10
Gene No.	95763	Strand	-
Start	6063	End	8880
Name	OJ000251_30.0303.C10.o1.tm	Method	TBLASTX:Maize
Start	7375	End	8836
GI	none	Score	149

Exons 7375..7524, 7376..7510, 7528..7785, 7529..7738, 7822..7986,  
7823..7981, 7897..7992, 7993..8043, 7994..8035, 8077..8352,  
8111..8320, 8386..8694, 8495..8689, 8570..8698, 8572..8691,  
8701..8835, 8702..8836

Seq. No.	45302	Seq. ID	OJ000251_30.0303.C10
Gene No.	95763	Strand	-
Start	6063	End	8880
Name	OJ000251_30.0303.C10.o1.tw	Method	TBLASTX:Wheat
Start	7564	End	8745
GI	none	Score	180
Exons	7564..7785, 7565..7741, 7822..8004, 7823..7981, 8605..8679, 8695..8745		

Seq. No.	45302	Seq. ID	OJ000251_30.0303.C10
Gene No.	95763	Strand	-
Start	6063	End	8880
Name	OJ000251_30.0303.C10.o2.gp	Method	AAT/GAP
Start	8408	End	8750
GI	3061211	Score	637
Exons	8408..8750		
GI Descrip.	3386598 3.0e-38 (AC004665) putative cytochrome p450 [Arabidopsis thaliana]		

Seq. No.	45303	Seq. ID	OJ000251_30.0303.C11
Gene No.	95764	Strand	+
Start	1	End	821
Name	OJ000251_30.0303.C11.o1.np	Method	AAT/NAP
Start	1	End	821
GI	6630742	Score	207
Exons	1..136, 620..821		
GI Descrip.	(AL132958) thioredoxin-like protein [Arabidopsis thaliana]		

Seq. No.	45303	Seq. ID	OJ000251_30.0303.C11
Gene No.	95765	Strand	-
Start	1704	End	2861
Name	OJ000251_30.0303.C11.o2.ts	Method	TBLASTX:Soybean
Start	603	End	806
GI	none	Score	254
Exons	603..779, 606..779, 688..780, 783..806		

Seq. No.	45303	Seq. ID	OJ000251_30.0303.C11
Gene No.	95765	Strand	-
Start	1704	End	2861
Name	OJ000251_30.0303.C11.o2.np	Method	AAT/NAP
Start	1704	End	2861
GI	6119540	Score	938
Exons	1704..2469, 2796..2861		
GI Descrip.	(AC011560) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45303	Seq. ID	OJ000251_30.0303.C11
Gene No.	95765	Strand	-
Start	1704	End	2861
Name	OJ000251_30.0303.C11.o3.ts	Method	TBLASTX:Soybean
Start	1759	End	2015
GI	none	Score	211
Exons	1759..2004, 1798..1995, 1814..2005, 1830..2015		

Seq. No.	45303	Seq. ID	OJ000251_30.0303.C11
Gene No.	95765	Strand	-
Start	1704	End	2861
Name	OJ000251_30.0303.C11.o1.ts	Method	TBLASTX:Soybean
Start	2028	End	2500
GI	none	Score	56
Exons	2028..2141, 2083..2133, 2222..2311, 2229..2309, 2297..2422, 2303..2500		

Seq. No.	45303	Seq. ID	OJ000251_30.0303.C11
Gene No.	95765	Strand	-
Start	1704	End	2861
Name	OJ000251_30.0303.C11.o1.tc	Method	TBLASTX:Cress
Start	2216	End	2455
GI	none	Score	103
Exons	2216..2455, 2217..2306, 2222..2455		

Seq. No.	45303	Seq. ID	OJ000251_30.0303.C11
Gene No.	95765	Strand	-
Start	1704	End	2861
Name	OJ000251_30.0303.C11.o1.tm	Method	TBLASTX:Maize
Start	2216	End	2437
GI	none	Score	91
Exons	2216..2311, 2220..2303, 2303..2437, 2303..2437		

Seq. No.	45304	Seq. ID	OJ000251_30.0303.C12
Gene No.	95766	Strand	+
Start	5395	End	8956
Name	OJ000251_30.0303.C12.o2.gs	Method	GENSCAN
Start	5395	End	8956
GI	none	Score	.7
Exons	5395..5595, 5846..5949, 6734..6762, 6845..6892, 6993..7088, 7353..7509, 7942..8017, 8108..8261, 8605..8699, 8774..8956		

Seq. No.	45304	Seq. ID	OJ000251_30.0303.C12
Gene No.	95767	Strand	+
Start	14067	End	15544
Name	OJ000251_30.0303.C12.o1.gp	Method	AAT/GAP
Start	13997	End	15544
GI	none	Score	1521
Exons	13997..14198, 14458..14606, 15098..15544		

Seq. No.	45304	Seq. ID	OJ000251_30.0303.C12
Gene No.	95767	Strand	+
Start	14067	End	15544
Name	OJ000251_30.0303.C12.o4.gs	Method	GENSCAN
Start	14067	End	15263
GI	none	Score	.73
Exons	14067..14198, 14458..14606, 15098..15263		

Seq. No.	45304	Seq. ID	OJ000251_30.0303.C12
Gene No.	95768	Strand	-
Start	1325	End	4334
Name	OJ000251_30.0303.C12.o1.gs	Method	GENSCAN
Start	1325	End	4334
GI	none	Score	.42

Exons 1325..2030, 3068..3301, 3787..4334

Seq. No.	45304	Seq. ID	OJ000251_30.0303.C12
Gene No.	95769	Strand	-
Start	9439	End	13012
Name	OJ000251_30.0303.C12.o6.tm	Method	TBLASTX:Maize
Start	1316	End	1544
GI	none	Score	190
Exons	1316..1543, 1317..1544		

Seq. No.	45304	Seq. ID	OJ000251_30.0303.C12
Gene No.	95769	Strand	-
Start	9439	End	13012
Name	OJ000251_30.0303.C12.o2.tm	Method	TBLASTX:Maize
Start	1728	End	2096
GI	none	Score	449
Exons	1728..2096, 1730..2095		

Seq. No.	45304	Seq. ID	OJ000251_30.0303.C12
Gene No.	95769	Strand	-
Start	9439	End	13012
Name	OJ000251_30.0303.C12.o3.ts	Method	TBLASTX:Soybean
Start	2037	End	3258
GI	none	Score	64
Exons	2037..2105, 2039..2104, 3082..3252, 3083..3187, 3094..3258		

Seq. No.	45304	Seq. ID	OJ000251_30.0303.C12
Gene No.	95769	Strand	-
Start	9439	End	13012
Name	OJ000251_30.0303.C12.o8.tm	Method	TBLASTX:Maize
Start	3085	End	3851
GI	none	Score	67
Exons	3085..3249, 3113..3187, 3259..3300, 3777..3851		

Seq. No.	45304	Seq. ID	OJ000251_30.0303.C12
Gene No.	95769	Strand	-
Start	9439	End	13012
Name	OJ000251_30.0303.C12.o2.ts	Method	TBLASTX:Soybean
Start	3840	End	4214
GI	none	Score	50
Exons	3840..4214, 3844..3879, 3958..4032, 4096..4203		

Seq. No.	45304	Seq. ID	OJ000251_30.0303.C12
Gene No.	95769	Strand	-
Start	9439	End	13012
Name	OJ000251_30.0303.C12.o3.tm	Method	TBLASTX:Maize
Start	3924	End	4275
GI	none	Score	75
Exons	3924..4037, 3924..4214, 3955..4038, 4093..4275		

Seq. No.	45304	Seq. ID	OJ000251_30.0303.C12
Gene No.	95769	Strand	-
Start	9439	End	13012
Name	OJ000251_30.0303.C12.o2.tc	Method	TBLASTX:Cress
Start	3975	End	4214
GI	none	Score	67
Exons	3975..4214, 3994..4038, 4096..4206		



Seq. No.	45304	Seq. ID	OJ000251_30.0303.C12
Gene No.	95769	Strand	-
Start	9439	End	13012
Name	OJ000251_30.0303.C12.o5.tm	Method	TBLASTX:Maize
Start	5524	End	6870
GI	none	Score	107
Exons	5524..5595, 5807..5908, 5845..5907, 5994..6107, 5998..6108, 6005..6157, 6515..6625, 6515..6631, 6692..6760, 6693..6761, 6707..6766, 6708..6776, 6844..6870, 6844..6870		

Seq. No.	45304	Seq. ID	OJ000251_30.0303.C12
Gene No.	95769	Strand	-
Start	9439	End	13012
Name	OJ000251_30.0303.C12.o4.tm	Method	TBLASTX:Maize
Start	7269	End	7509
GI	none	Score	298
Exons	7269..7508, 7270..7509, 7271..7507		

Seq. No.	45304	Seq. ID	OJ000251_30.0303.C12
Gene No.	95769	Strand	-
Start	9439	End	13012
Name	OJ000251_30.0303.C12.o7.tm	Method	TBLASTX:Maize
Start	8173	End	8827
GI	none	Score	108
Exons	8173..8262, 8174..8272, 8588..8695, 8588..8737, 8604..8699, 8747..8827, 8764..8826, 8765..8827		

Seq. No.	45304	Seq. ID	OJ000251_30.0303.C12
Gene No.	95769	Strand	-
Start	9439	End	13012
Name	OJ000251_30.0303.C12.o1.np	Method	AAT/NAP
Start	9424	End	12218
GI	1705734	Score	1493
Exons	9424..9498, 9581..9680, 9905..10032, 10112..10279, 10359..10471, 10593..10745, 10843..10986, 11252..11755, 12005..12218		
GI Descrip.	CALCIUM-DEPENDENT PROTEIN KINASE, ISOFORM 2 (CDPK 2) gi 1362176 pir  S56652 probable calcium-dependent protein kinase (clone OSCPK2) - rice gi 587498 emb CAA57157  (X81394) calcium-dependent protein kinase [Oryza sativa]		

Seq. No.	45304	Seq. ID	OJ000251_30.0303.C12
Gene No.	95769	Strand	-
Start	9439	End	13012
Name	OJ000251_30.0303.C12.o1.ts	Method	TBLASTX:Soybean
Start	9436	End	11753
GI	none	Score	37
Exons	9436..9498, 9460..9501, 9590..9706, 9590..9694, 9904..10047, 9904..10029, 10112..10285, 10113..10286, 10115..10291, 10356..10472, 10375..10473, 10594..10749, 10610..10753, 10844..10987, 10845..10991, 10845..10988, 11247..11459, 11247..11753, 11251..11700		

Seq. No.	45304	Seq. ID	OJ000251_30.0303.C12
Gene No.	95769	Strand	-
Start	9439	End	13012
Name	OJ000251_30.0303.C12.o3.gs	Method	GENSCAN

Start	9439	End	13012
GI	none	Score	.69
Exons	9439..9498, 9581..9680, 9905..10059, 10175..10279, 10359..10471, 10843..10986, 11252..12017, 12270..12323, 12866..13012		

Seq. No.	45304	Seq. ID	OJ000251_30.0303.C12
Gene No.	95769	Strand	-
Start	9439	End	13012
Name	OJ000251_30.0303.C12.o1.tm	Method	TBLASTX:Maize
Start	9445	End	11753
GI	none	Score	69
Exons	9445..9498, 9584..9694, 9904..10029, 9905..9997, 9907..10047, 10112..10285, 10113..10286, 10356..10451, 10375..10452, 10440..10472, 10447..10470, 10594..10749, 10609..10731, 10610..10753, 10840..10989, 10844..10987, 10845..10991, 10845..10988, 10853..10987, 10854..10991, 11247..11345, 11251..11346, 11271..11594, 11274..11753, 11275..11745		

Seq. No.	45304	Seq. ID	OJ000251_30.0303.C12
Gene No.	95769	Strand	-
Start	9439	End	13012
Name	OJ000251_30.0303.C12.o1.tc	Method	TBLASTX:Cress
Start	9451	End	11753
GI	none	Score	40
Exons	9451..9501, 9451..9507, 9581..9727, 9584..9694, 9896..9997, 9904..10029, 10112..10285, 10113..10286, 10356..10451, 10375..10452, 10444..10470, 10446..10472, 10594..10749, 10607..10753, 10844..10987, 10845..10997, 11247..11753, 11250..11459, 11251..11700		

Seq. No.	45304	Seq. ID	OJ000251_30.0303.C12
Gene No.	95769	Strand	-
Start	9439	End	13012
Name	OJ000251_30.0303.C12.o2.tw	Method	TBLASTX:Wheat
Start	10594	End	11300
GI	none	Score	77
Exons	10594..10749, 10595..10753, 10844..10987, 10845..10970, 10845..10994, 11247..11300, 11250..11297		

Seq. No.	45304	Seq. ID	OJ000251_30.0303.C12
Gene No.	95769	Strand	-
Start	9439	End	13012
Name	OJ000251_30.0303.C12.o1.tw	Method	TBLASTX:Wheat
Start	11301	End	11573
GI	none	Score	117
Exons	11301..11474, 11301..11573, 11323..11571		

Seq. No.	45305	Seq. ID	OJ000251_30.0303.C13
Gene No.	95770	Strand	+
Start	80	End	2023
Name	OJ000251_30.0303.C13.o1.gs	Method	GENSCAN
Start	80	End	2023
GI	none	Score	.53
Exons	80..166, 1038..1221, 1245..1379, 1890..2023		

Seq. No.	45305	Seq. ID	OJ000251_30.0303.C13
Gene No.	95771	Strand	+

Start	3269	End	6673
Name	OJ000251_30.0303.C13.o1.gp	Method	AAT/GAP
Start	3018	End	3617
GI	none	Score	1060
Exons	3018..3617		

Seq. No.	45305	Seq. ID	OJ000251_30.0303.C13
Gene No.	95771	Strand	+
Start	3269	End	6673
Name	OJ000251_30.0303.C13.o2.gs	Method	GENSCAN
Start	3269	End	6673
GI	none	Score	.83
Exons	3269..5169, 5277..5400, 5493..6073, 6200..6475, 6643..6673		

Seq. No.	45305	Seq. ID	OJ000251_30.0303.C13
Gene No.	95771	Strand	+
Start	3269	End	6673
Name	OJ000251_30.0303.C13.o2.np	Method	AAT/NAP
Start	3371	End	6494
GI	4836872	Score	1851
Exons	3371..3745, 3795..4102, 4133..4906, 4946..5169, 5277..5400, 5493..5786, 5871..6073, 6200..6494		
GI Descrip.	(AC007260) lcl prt_seq No definition line found [Arabidopsis thaliana]		

Seq. No.	45305	Seq. ID	OJ000251_30.0303.C13
Gene No.	95772	Strand	+
Start	9042	End	12586
Name	OJ000251_30.0303.C13.o5.np	Method	AAT/NAP
Start	9042	End	12586
GI	5917666	Score	129
Exons	9042..9288, 11057..11273, 11323..11631, 12423..12586		
GI Descrip.	(AF159297) extensin-like protein [Zea mays]		

Seq. No.	45305	Seq. ID	OJ000251_30.0303.C13
Gene No.	95773	Strand	-
Start	336	End	2431
Name	OJ000251_30.0303.C13.o1.np	Method	AAT/NAP
Start	336	End	2431
GI	7523517	Score	387
Exons	336..381, 1933..1976, 2128..2431		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	45305	Seq. ID	OJ000251_30.0303.C13
Gene No.	95774	Strand	-
Start	7393	End	9437
Name	OJ000251_30.0303.C13.o3.gs	Method	GENSCAN
Start	7393	End	9419
GI	none	Score	.7
Exons	7393..7419, 7452..7574, 7666..7937, 8250..8371, 8442..8594, 8945..9224, 9314..9419		

Seq. No.	45305	Seq. ID	OJ000251_30.0303.C13
Gene No.	95774	Strand	-
Start	7393	End	9437
Name	OJ000251_30.0303.C13.o3.np	Method	AAT/NAP
Start	7419	End	7814

GI 6572059 Score 190  
 Exons 7419..7574, 7666..7814  
 GI Descrip. (AL133452) putative protein [Arabidopsis thaliana]

Seq. No. 45305 Seq. ID OJ000251\_30.0303.C13  
 Gene No. 95774 Strand -  
 Start 7393 End 9437  
 Name OJ000251\_30.0303.C13.o4.np Method AAT/NAP  
 Start 8375 End 9437  
 GI 7459614 Score 489  
 Exons 8375..8594, 8945..9191, 9296..9437  
 GI Descrip. hypothetical protein F4B14.20 - Arabidopsis thaliana  
 gi|3367593|emb|CAA20045.1| (AL031135) putative protein  
 [Arabidopsis thaliana] gi|7270527|emb|CAB81484.1| (AL161588)  
 putative protein [Arabidopsis thaliana]

Seq. No. 45305 Seq. ID OJ000251\_30.0303.C13  
 Gene No. 95775 Strand -  
 Start 10889 End 14307  
 Name OJ000251\_30.0303.C13.o1.tc Method TBLASTX:Cress  
 Start 3559 End 4272  
 GI none Score 46  
 Exons 3559..3672, 3656..3796, 3659..3823, 3775..3828, 3778..3900,  
 3844..3999, 3860..4060, 3878..4057, 4054..4272, 4055..4078,  
 4139..4270

Seq. No. 45305 Seq. ID OJ000251\_30.0303.C13  
 Gene No. 95775 Strand -  
 Start 10889 End 14307  
 Name OJ000251\_30.0303.C13.o2.tm Method TBLASTX:Maize  
 Start 4289 End 4696  
 GI none Score 515  
 Exons 4289..4696, 4294..4695

Seq. No. 45305 Seq. ID OJ000251\_30.0303.C13  
 Gene No. 95775 Strand -  
 Start 10889 End 14307  
 Name OJ000251\_30.0303.C13.o1.ts Method TBLASTX:Soybean  
 Start 4369 End 4687  
 GI none Score 358  
 Exons 4369..4677, 4370..4687

Seq. No. 45305 Seq. ID OJ000251\_30.0303.C13  
 Gene No. 95775 Strand -  
 Start 10889 End 14307  
 Name OJ000251\_30.0303.C13.o3.tm Method TBLASTX:Maize  
 Start 4769 End 5178  
 GI none Score 74  
 Exons 4769..4831, 4832..5170, 4906..5169, 5029..5178

Seq. No. 45305 Seq. ID OJ000251\_30.0303.C13  
 Gene No. 95775 Strand -  
 Start 10889 End 14307  
 Name OJ000251\_30.0303.C13.o6.ts Method TBLASTX:Soybean  
 Start 5080 End 5405  
 GI none Score 86  
 Exons 5080..5157, 5081..5158, 5272..5400, 5272..5400, 5274..5405

Seq. No.	45305	Seq. ID	OJ000251_30.0303.C13
Gene No.	95775	Strand	-
Start	10889	End	14307
Name	OJ000251_30.0303.C13.o5.tm	Method	TBLASTX:Maize
Start	5269	End	5549
GI	none	Score	204
Exons	5269..5403, 5271..5411, 5275..5403, 5492..5548, 5493..5549, 5502..5549		

Seq. No.	45305	Seq. ID	OJ000251_30.0303.C13
Gene No.	95775	Strand	-
Start	10889	End	14307
Name	OJ000251_30.0303.C13.o1.tm	Method	TBLASTX:Maize
Start	5550	End	6324
GI	none	Score	289
Exons	5550..5795, 5552..5779, 5664..5795, 5865..6074, 5867..6061, 5882..6076, 6201..6323, 6202..6324, 6206..6322		

Seq. No.	45305	Seq. ID	OJ000251_30.0303.C13
Gene No.	95775	Strand	-
Start	10889	End	14307
Name	OJ000251_30.0303.C13.o2.ts	Method	TBLASTX:Soybean
Start	5745	End	6050
GI	none	Score	79
Exons	5745..5795, 5865..6050, 5865..6023, 5873..6040		

Seq. No.	45305	Seq. ID	OJ000251_30.0303.C13
Gene No.	95775	Strand	-
Start	10889	End	14307
Name	OJ000251_30.0303.C13.o4.ts	Method	TBLASTX:Soybean
Start	6209	End	6460
GI	5677350	Score	247
Exons	6209..6460, 6219..6437		
GI Descrip.	2264369 6.0e-22 (AC002354) predicted protein of unknown function [Arabidopsis thaliana]		

Seq. No.	45305	Seq. ID	OJ000251_30.0303.C13
Gene No.	95775	Strand	-
Start	10889	End	14307
Name	OJ000251_30.0303.C13.o7.ts	Method	TBLASTX:Soybean
Start	8372	End	8587
GI	none	Score	109
Exons	8372..8587, 8453..8584		

Seq. No.	45305	Seq. ID	OJ000251_30.0303.C13
Gene No.	95775	Strand	-
Start	10889	End	14307
Name	OJ000251_30.0303.C13.o2.tc	Method	TBLASTX:Cress
Start	8450	End	9488
GI	none	Score	114
Exons	8450..8620, 8462..8602, 8535..8621, 8944..9177, 8945..9157, 9249..9488		

Seq. No.	45305	Seq. ID	OJ000251_30.0303.C13
Gene No.	95775	Strand	-
Start	10889	End	14307

Name	OJ000251_30.0303.C13.o6.tm	Method	TBLASTX:Maize
Start	8453	End	9398
GI	none	Score	65
Exons	8453..8611, 8944..9177, 8945..9136, 9259..9372, 9276..9398		
Seq. No.	45305	Seq. ID	OJ000251_30.0303.C13
Gene No.	95775	Strand	-
Start	10889	End	14307
Name	OJ000251_30.0303.C13.o5.ts	Method	TBLASTX:Soybean
Start	8932	End	9398
GI	none	Score	108
Exons	8932..9177, 8942..9121, 9276..9398, 9307..9372		
Seq. No.	45305	Seq. ID	OJ000251_30.0303.C13
Gene No.	95775	Strand	-
Start	10889	End	14307
Name	OJ000251_30.0303.C13.o6.np	Method	AAT/NAP
Start	10709	End	13036
GI	6815059	Score	390
Exons	10709..10738, 12615..13036		
GI Descrip.	(AP001080) Similar to geranylgeranyl hydrogenase. (AF069318) [Oryza sativa]		
Seq. No.	45305	Seq. ID	OJ000251_30.0303.C13
Gene No.	95775	Strand	-
Start	10889	End	14307
Name	OJ000251_30.0303.C13.o4.gs	Method	GENSCAN
Start	10889	End	14307
GI	none	Score	.54
Exons	10889..11316, 12501..12858, 13072..13236, 14246..14307		
Seq. No.	45305	Seq. ID	OJ000251_30.0303.C13
Gene No.	95775	Strand	-
Start	10889	End	14307
Name	OJ000251_30.0303.C13.o3.ts	Method	TBLASTX:Soybean
Start	12638	End	13007
GI	none	Score	137
Exons	12638..12841, 12640..12948, 12722..12946, 12754..12948, 12930..13007		
Seq. No.	45305	Seq. ID	OJ000251_30.0303.C13
Gene No.	95775	Strand	-
Start	10889	End	14307
Name	OJ000251_30.0303.C13.o3.tc	Method	TBLASTX:Cress
Start	12640	End	12949
GI	none	Score	118
Exons	12640..12948, 12722..12949		
Seq. No.	45305	Seq. ID	OJ000251_30.0303.C13
Gene No.	95775	Strand	-
Start	10889	End	14307
Name	OJ000251_30.0303.C13.o4.tm	Method	TBLASTX:Maize
Start	12661	End	12950
GI	none	Score	249
Exons	12661..12948, 12662..12949, 12759..12950		
Seq. No.	45306	Seq. ID	OJ000251_30.0303.C14

Gene No.	95776	Strand	+
Start	5012	End	5141
Name	OJ000251_30.0303.C14.o1.gp	Method	AAT/GAP
Start	5012	End	5141
GI	none	Score	211
Exons	5012..5141		

Seq. No.	45306	Seq. ID	OJ000251_30.0303.C14
Gene No.	95777	Strand	+
Start	5970	End	6191
Name	OJ000251_30.0303.C14.o2.gs	Method	GENSCAN
Start	5970	End	6191
GI	none	Score	.95
Exons	5970..6191		

Seq. No.	45306	Seq. ID	OJ000251_30.0303.C14
Gene No.	95778	Strand	-
Start	1	End	6344
Name	OJ000251_30.0303.C14.o1.np	Method	AAT/NAP
Start	1	End	1414
GI	6815109	Score	171
Exons	1..347, 1375..1414		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	45306	Seq. ID	OJ000251_30.0303.C14
Gene No.	95778	Strand	-
Start	1	End	6344
Name	OJ000251_30.0303.C14.o2.np	Method	AAT/NAP
Start	1	End	6344
GI	5042454	Score	298
Exons	1..87, 1895..2285, 2842..2914, 6240..6344		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	45307	Seq. ID	OJ000251_30.0303.C15
Gene No.	95779	Strand	+
Start	1	End	2753
Name	OJ000251_30.0303.C15.o1.np	Method	AAT/NAP
Start	1	End	1385
GI	6573707	Score	1259
Exons	1..122, 248..847, 987..1385		
GI Descrip.	(AC009978) T23E18.7 [Arabidopsis thaliana]		

Seq. No.	45307	Seq. ID	OJ000251_30.0303.C15
Gene No.	95779	Strand	+
Start	1	End	2753
Name	OJ000251_30.0303.C15.o1.gs	Method	GENSCAN
Start	248	End	2715
GI	none	Score	.84
Exons	248..847, 987..1269, 1291..1367, 1456..1531, 1759..1919, 2001..2139, 2198..2290, 2615..2715		

Seq. No.	45307	Seq. ID	OJ000251_30.0303.C15
Gene No.	95779	Strand	+
Start	1	End	2753
Name	OJ000251_30.0303.C15.o1.gp	Method	AAT/GAP
Start	1034	End	1647
GI	24957_1.R1084	Score	822

Exons 1034..1367, 1456..1531, 1625..1647  
 GI Descrip. '5689035/dbj|BAA83071.1| 1.0e-57 (AB022053) prolyl  
 oligopeptidase [Mus musculus]'

Seq. No.	45307	Seq. ID	OJ000251_30.0303.C15
Gene No.	95779	Strand	+
Start	1	End	2753
Name	OJ000251_30.0303.C15.o2.np	Method	AAT/NAP
Start	1498	End	2260
GI	6573708	Score	429
Exons	1498..1531, 1625..1688, 1787..1919, 2001..2114, 2198..2260		
GI Descrip.	(AC009978) T23E18.8 [Arabidopsis thaliana]		

Seq. No.	45307	Seq. ID	OJ000251_30.0303.C15
Gene No.	95779	Strand	+
Start	1	End	2753
Name	OJ000251_30.0303.C15.o3.np	Method	AAT/NAP
Start	2614	End	2753
GI	5852172	Score	71
Exons	2614..2753		
GI Descrip.	(AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	45307	Seq. ID	OJ000251_30.0303.C15
Gene No.	95780	Strand	+
Start	4296	End	6494
Name	OJ000251_30.0303.C15.o2.ts	Method	TBLASTX:Soybean
Start	3	End	568
GI	none	Score	160
Exons	3..122, 11..121, 245..343, 247..336, 355..567, 356..568		

Seq. No.	45307	Seq. ID	OJ000251_30.0303.C15
Gene No.	95780	Strand	+
Start	4296	End	6494
Name	OJ000251_30.0303.C15.o2.tm	Method	TBLASTX:Maize
Start	36	End	649
GI	none	Score	117
Exons	36..137, 38..136, 245..346, 247..345, 362..565, 364..558, 569..649, 574..636		

Seq. No.	45307	Seq. ID	OJ000251_30.0303.C15
Gene No.	95780	Strand	+
Start	4296	End	6494
Name	OJ000251_30.0303.C15.o1.tc	Method	TBLASTX:Cress
Start	355	End	1340
GI	none	Score	528
Exons	355..822, 356..862, 972..1325, 983..1339, 984..1340		

Seq. No.	45307	Seq. ID	OJ000251_30.0303.C15
Gene No.	95780	Strand	+
Start	4296	End	6494
Name	OJ000251_30.0303.C15.o1.tm	Method	TBLASTX:Maize
Start	698	End	2263
GI	none	Score	175
Exons	698..862, 706..849, 972..1109, 984..1367, 986..1363, 1453..1533, 1453..1524, 1458..1532, 1623..1691, 1624..1692, 1630..1692, 1785..1826, 1842..1919, 1844..1924, 1982..2122, 2001..2123, 2197..2259, 2198..2263		



Seq. No.	45307	Seq. ID	OJ000251_30.0303.C15
Gene No.	95780	Strand	+
Start	4296	End	6494
Name	OJ000251_30.0303.C15.o1.ts	Method	TBLASTX:Soybean
Start	975	End	1343
GI	none	Score	490
Exons	975..1343, 998..1339		

Seq. No.	45307	Seq. ID	OJ000251_30.0303.C15
Gene No.	95780	Strand	+
Start	4296	End	6494
Name	OJ000251_30.0303.C15.o3.ts	Method	TBLASTX:Soybean
Start	1642	End	2098
GI	none	Score	98
Exons	1642..1692, 1647..1691, 1785..1826, 1842..1919, 1844..1924, 1982..2098		

Seq. No.	45307	Seq. ID	OJ000251_30.0303.C15
Gene No.	95780	Strand	+
Start	4296	End	6494
Name	OJ000251_30.0303.C15.o2.tc	Method	TBLASTX:Cress
Start	1663	End	2251
GI	none	Score	60
Exons	1663..1692, 1785..1826, 1787..1822, 1842..1925, 1844..1924, 1997..2134, 1998..2123, 2198..2251, 2198..2242		

Seq. No.	45307	Seq. ID	OJ000251_30.0303.C15
Gene No.	95780	Strand	+
Start	4296	End	6494
Name	OJ000251_30.0303.C15.o2.gs	Method	GENSCAN
Start	4296	End	6494
GI	none	Score	.87
Exons	4296..4868, 5370..5489, 5789..5997, 6449..6494		

Seq. No.	45307	Seq. ID	OJ000251_30.0303.C15
Gene No.	95780	Strand	+
Start	4296	End	6494
Name	OJ000251_30.0303.C15.o4.np	Method	AAT/NAP
Start	4308	End	5513
GI	4966342	Score	666
Exons	4308..4868, 5370..5513		
GI Descrip.	(AC006341) ESTs gb T04357 and gb AA595092 come from this gene. [Arabidopsis thaliana]		

Seq. No.	45307	Seq. ID	OJ000251_30.0303.C15
Gene No.	95780	Strand	+
Start	4296	End	6494
Name	OJ000251_30.0303.C15.o2.gp	Method	AAT/GAP
Start	4543	End	5502
GI	LIB3433-006-Q6-K6-F11	Score	810
Exons	4543..4868, 5370..5502		
GI Descrip.	'4966342/gb AAD34673.1 AC006341_1 1.0e-13 (AC006341) ESTs gb_T04357 and gb_AA595092 come from this gene. [Arabidopsis thaliana]'		

Seq. No.	45307	Seq. ID	OJ000251_30.0303.C15
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Gene No.	95780	Strand	+
Start	4296	End	6494
Name	OJ000251_30.0303.C15.o3.tm	Method	TBLASTX:Maize
Start	4718	End	5502
GI	none	Score	112
Exons	4718..4834, 4734..4826, 4809..4868, 4820..4948, 5355..5495, 5368..5502, 5369..5491		

Seq. No.	45308	Seq. ID	OJ000251_30.0303.C16
Gene No.	95781	Strand	+
Start	156	End	873
Name	OJ000251_30.0303.C16.o1.gs	Method	GENSCAN
Start	156	End	873
GI	none	Score	.74
Exons	156..210, 650..873		

Seq. No.	45308	Seq. ID	OJ000251_30.0303.C16
Gene No.	95782	Strand	-
Start	1	End	2457
Name	OJ000251_30.0303.C16.o1.np	Method	AAT/NAP
Start	1	End	2457
GI	7509998	Score	89
Exons	1..82, 281..395, 722..794, 1296..1376, 1558..1632, 1695..1826, 1917..1946, 2075..2140, 2426..2457		
GI Descrip.	hypothetical protein Y48C3A.n - Caenorhabditis elegans		

Seq. No.	45308	Seq. ID	OJ000251_30.0303.C16
Gene No.	95782	Strand	-
Start	1	End	2457
Name	OJ000251_30.0303.C16.o2.gs	Method	GENSCAN
Start	1156	End	2103
GI	none	Score	.75
Exons	1156..1194, 1558..1632, 1707..1869, 2075..2103		

Seq. No.	45308	Seq. ID	OJ000251_30.0303.C16
Gene No.	95782	Strand	-
Start	1	End	2457
Name	OJ000251_30.0303.C16.o1.tm	Method	TBLASTX:Maize
Start	1549	End	2000
GI	none	Score	105
Exons	1549..1632, 1559..1636, 1696..1824, 1702..1827, 1704..1832, 1707..1838, 1913..1999, 1914..2000, 1914..1997, 1915..1998, 1916..1999		

Seq. No.	45309	Seq. ID	OJ000251_30.0303.C17
Gene No.	95783	Strand	+
Start	999	End	2359
Name	OJ000251_30.0303.C17.o1.gs	Method	GENSCAN
Start	999	End	2359
GI	none	Score	.44
Exons	999..1118, 1373..1562, 1758..2062, 2330..2359		

Seq. No.	45309	Seq. ID	OJ000251_30.0303.C17
Gene No.	95784	Strand	+
Start	10190	End	10348
Name	OJ000251_30.0303.C17.o2.gp	Method	AAT/GAP
Start	10190	End	10348

GI none  
Exons 10190..10348

Score 283

Seq. No.	45309	Seq. ID	OJ000251_30.0303.C17
Gene No.	95785	Strand	-
Start	172	End	498
Name	OJ000251_30.0303.C17.o1.gp	Method	AAT/GAP
Start	172	End	498
GI	none	Score	431
Exons	172..276, 361..498		

Seq. No.	45309	Seq. ID	OJ000251_30.0303.C17
Gene No.	95786	Strand	-
Start	2620	End	5176
Name	OJ000251_30.0303.C17.o2.np	Method	AAT/NAP
Start	2617	End	4697
GI	7485206	Score	202
Exons	2617..2802, 2878..3160, 3236..3416, 3562..3714, 3827..4004, 4623..4697		

GI Descrip. hypothetical protein - Arabidopsis thaliana  
gi|2244981|emb|CAB10402.1| (Z97340) proline-rich, APG like  
protein [Arabidopsis thaliana] gi|7268372|emb|CAB78665.1|  
(AL161543) proline-rich, APG like protein [Arabidopsis thaliana]

Seq. No.	45309	Seq. ID	OJ000251_30.0303.C17
Gene No.	95786	Strand	-
Start	2620	End	5176
Name	OJ000251_30.0303.C17.o2.gs	Method	GENSCAN
Start	2620	End	5176
GI	none	Score	.66
Exons	2620..2834, 2919..3120, 3157..3234, 3280..3498, 3578..3714, 3827..4183, 4574..4693, 5011..5176		

Seq. No.	45309	Seq. ID	OJ000251_30.0303.C17
Gene No.	95786	Strand	-
Start	2620	End	5176
Name	OJ000251_30.0303.C17.o1.np	Method	AAT/NAP
Start	2626	End	4106
GI	6714341	Score	243
Exons	2626..2832, 2923..3271, 3346..3488, 3562..3691, 3807..4106		
GI Descrip.	(AC016162) putative GDSL-motif lipase/acylhydrolase [Arabidopsis thaliana]		

Seq. No.	45309	Seq. ID	OJ000251_30.0303.C17
Gene No.	95787	Strand	-
Start	6272	End	10289
Name	OJ000251_30.0303.C17.o4.tm	Method	TBLASTX:Maize
Start	820	End	1024
GI	none	Score	78
Exons	820..999, 833..1015, 834..1016, 835..1020, 836..1024		

Seq. No.	45309	Seq. ID	OJ000251_30.0303.C17
Gene No.	95787	Strand	-
Start	6272	End	10289
Name	OJ000251_30.0303.C17.o3.tm	Method	TBLASTX:Maize
Start	3350	End	8924
GI	none	Score	206

Exons 3350..3421, 7325..7609, 7336..7608, 8817..8924

Seq. No.	45309	Seq. ID	OJ000251_30.0303.C17
Gene No.	95787	Strand	-
Start	6272	End	10289
Name	OJ000251_30.0303.C17.o3.np	Method	AAT/NAP
Start	6261	End	9186
GI	6552745	Score	1582
Exons	6261..6499, 6607..6685, 6770..7144, 7244..7592, 7710..7812, 7894..8164, 8818..8927, 9040..9186		
GI Descrip.	(AC013482) T26F17.6 [Arabidopsis thaliana]		

Seq. No.	45309	Seq. ID	OJ000251_30.0303.C17
Gene No.	95787	Strand	-
Start	6272	End	10289
Name	OJ000251_30.0303.C17.o3.gs	Method	GENSCAN
Start	6272	End	10289
GI	none	Score	.48
Exons	6272..6685, 6778..7144, 7187..7592, 7710..7789, 7913..8164, 8327..8424, 8814..8927, 9040..9207, 10194..10289		

Seq. No.	45309	Seq. ID	OJ000251_30.0303.C17
Gene No.	95787	Strand	-
Start	6272	End	10289
Name	OJ000251_30.0303.C17.o1.tm	Method	TBLASTX:Maize
Start	6296	End	7146
GI	none	Score	182
Exons	6296..6505, 6327..6506, 6604..6687, 6604..6684, 6721..6861, 6769..6858, 6925..7146, 6940..7077, 6995..7141, 7053..7145		

Seq. No.	45309	Seq. ID	OJ000251_30.0303.C17
Gene No.	95787	Strand	-
Start	6272	End	10289
Name	OJ000251_30.0303.C17.o1.tw	Method	TBLASTX:Wheat
Start	6302	End	6696
GI	none	Score	243
Exons	6302..6505, 6324..6506, 6604..6696, 6604..6681		

Seq. No.	45309	Seq. ID	OJ000251_30.0303.C17
Gene No.	95787	Strand	-
Start	6272	End	10289
Name	OJ000251_30.0303.C17.o1.tc	Method	TBLASTX:Cress
Start	6314	End	7147
GI	none	Score	153
Exons	6314..6505, 6342..6506, 6604..6684, 6605..6685, 6769..6873, 6770..6862, 6925..7146, 6995..7147		

Seq. No.	45309	Seq. ID	OJ000251_30.0303.C17
Gene No.	95787	Strand	-
Start	6272	End	10289
Name	OJ000251_30.0303.C17.o1.ts	Method	TBLASTX:Soybean
Start	6314	End	9141
GI	none	Score	167
Exons	6314..6505, 6327..6506, 6604..6684, 6605..6685, 6769..6873, 6770..6874, 6925..7146, 7001..7147, 7336..7608, 7372..7590, 7379..7594, 7699..7809, 7709..7813, 7897..8163, 7904..8161, 8817..8927, 8821..8928, 9040..9141, 9041..9130		

Seq. No.	45309	Seq. ID	OJ000251_30.0303.C17
Gene No.	95787	Strand	-
Start	6272	End	10289
Name	OJ000251_30.0303.C17.o2.tc	Method	TBLASTX:Cress
Start	7243	End	9160
GI	none	Score	52
Exons	7243..7299, 7336..7593, 7379..7627, 7744..7809, 7748..7813, 7892..8161, 7897..8163, 8817..8927, 8818..8928, 9040..9114, 9041..9160		

Seq. No.	45309	Seq. ID	OJ000251_30.0303.C17
Gene No.	95787	Strand	-
Start	6272	End	10289
Name	OJ000251_30.0303.C17.o2.tm	Method	TBLASTX:Maize
Start	7731	End	8161
GI	none	Score	79
Exons	7731..7805, 7732..7848, 7733..7837, 7892..8161, 7897..8160		

Seq. No.	45310	Seq. ID	OJ000251_30.0303.C18
Gene No.	95788	Strand	+
Start	1	End	4179
Name	OJ000251_30.0303.C18.o1.gp	Method	AAT/GAP
Start	1	End	2191
GI	none	Score	638
Exons	1..79, 1719..1793, 1876..1947, 2065..2191		

Seq. No.	45310	Seq. ID	OJ000251_30.0303.C18
Gene No.	95788	Strand	+
Start	1	End	4179
Name	OJ000251_30.0303.C18.o1.tm	Method	TBLASTX:Maize
Start	3	End	3862
GI	none	Score	103
Exons	3..83, 8..82, 1701..1802, 1719..1808, 1876..1947, 1877..1930, 2159..2200, 2307..2342, 2965..3099, 2985..3101, 2988..3101, 3809..3862, 3812..3862		

Seq. No.	45310	Seq. ID	OJ000251_30.0303.C18
Gene No.	95788	Strand	+
Start	1	End	4179
Name	OJ000251_30.0303.C18.o1.gs	Method	GENSCAN
Start	1999	End	3897
GI	none	Score	.56
Exons	1999..2199, 2989..3098, 3591..3643, 3811..3897		

Seq. No.	45310	Seq. ID	OJ000251_30.0303.C18
Gene No.	95788	Strand	+
Start	1	End	4179
Name	OJ000251_30.0303.C18.o1.np	Method	AAT/NAP
Start	2949	End	4179
GI	7490349	Score	128
Exons	2949..3102, 4029..4179		
GI Descrip.	conserved hypothetical protein SPBC3H7.09 - fission yeast (Schizosaccharomyces pombe) gi 3417417 emb CAA20305.1  (AL031261) conserved hypothetical protein [Schizosaccharomyces pombe]		

Seq. No.	45310	Seq. ID	OJ000251_30.0303.C18
Gene No.	95788	Strand	+
Start	1	End	4179
Name	OJ000251_30.0303.C18.o1.ts	Method	TBLASTX:Soybean
Start	2965	End	3901
GI	none	Score	214
Exons	2965..3099, 2985..3107, 3806..3901		

Seq. No.	45311	Seq. ID	OJ000251_33.0331.C2
Gene No.	95789	Strand	+
Start	293	End	363
Name	OJ000251_33.0331.C2.o1.gs	Method	GENSCAN
Start	293	End	363
GI	none	Score	.6
Exons	293..363		

Seq. No.	45312	Seq. ID	OJ000251_33.0331.C3
Gene No.	95790	Strand	+
Start	5620	End	5701
Name	OJ000251_33.0331.C3.o4.gp	Method	AAT/GAP
Start	5620	End	5701
GI	38012_1.R1084	Score	105
Exons	5620..5701		
GI Descrip.	'4097947/gb U72255 OSU72255 2.0e-23 Oryza sativa beta-1,3-glucanase precursor (Gns9) gene, complete cds'		

Seq. No.	45312	Seq. ID	OJ000251_33.0331.C3
Gene No.	95791	Strand	-
Start	1573	End	4920
Name	OJ000251_33.0331.C3.o1.gp	Method	AAT/GAP
Start	1292	End	1750
GI	26322_1.R1084	Score	863
Exons	1292..1750		
GI Descrip.	'576771/gb U16256 OSU16256 0.0e+00 Oryza sativa cone SR1 sucrose-regulated mRNA, 3''-end sequence'		

Seq. No.	45312	Seq. ID	OJ000251_33.0331.C3
Gene No.	95791	Strand	-
Start	1573	End	4920
Name	OJ000251_33.0331.C3.o1.gs	Method	GENSCAN
Start	1573	End	4837
GI	none	Score	1
Exons	1573..2042, 2236..4837		

Seq. No.	45312	Seq. ID	OJ000251_33.0331.C3
Gene No.	95791	Strand	-
Start	1573	End	4920
Name	OJ000251_33.0331.C3.o1.np	Method	AAT/NAP
Start	1576	End	4831
GI	7434429	Score	3498
Exons	1576..1673, 1731..2042, 2236..4831		
GI Descrip.	hypothetical protein F6H11.170 - Arabidopsis thaliana gi 2827715 emb CAA16688.1  (AL021684) receptor protein kinase - like protein [Arabidopsis thaliana]		

Seq. No.	45312	Seq. ID	OJ000251_33.0331.C3
Gene No.	95791	Strand	-

Start	1573	End	4920
Name	OJ000251_33.0331.C3.o2.gp		
Start	2942	Method	AAT/GAP
GI	2317499	End	3408
Exons	2942..3408	Score	915
GI Descrip.	2827715/emb CAA16688  2.0e-51 (AL021684) receptor protein kinase - like protein [Arabidopsis thaliana]		

Seq. No.	45312	Seq. ID	OJ000251_33.0331.C3
Gene No.	95791	Strand	-
Start	1573	End	4920
Name	OJ000251_33.0331.C3.o3.gp	Method	AAT/GAP
Start	4459	End	4920
GI	none	Score	793
Exons	4459..4920		

Seq. No.	45312	Seq. ID	OJ000251_33.0331.C3
Gene No.	95792	Strand	-
Start	7627	End	12736
Name	OJ000251_33.0331.C3.o2.tw	Method	TBLASTX:Wheat
Start	1574	End	1848
GI	none	Score	153
Exons	1574..1615, 1708..1848, 1730..1843, 1747..1848		

Seq. No.	45312	Seq. ID	OJ000251_33.0331.C3
Gene No.	95792	Strand	-
Start	7627	End	12736
Name	OJ000251_33.0331.C3.o1.tc	Method	TBLASTX:Cress
Start	1694	End	4621
GI	none	Score	83
Exons	1694..1909, 1732..1881, 1889..2044, 1909..2043, 2237..2635, 2251..2532, 2271..2636, 2639..2854, 2664..2837, 2978..3466, 3056..3481, 3056..3250, 3057..3215, 3059..3478, 3059..3298, 3059..3370, 3059..3469, 3077..3322, 3119..3472, 3152..3286, 3188..3469, 3203..3469, 3204..3287, 3224..3358, 3248..3511, 3267..3452, 3270..3446, 3296..3499, 3325..3372, 3480..4010, 3482..3883, 3482..4021, 3482..3829, 3494..4408, 3494..3901, 3494..3709, 3495..4376, 3560..3937, 3587..3748, 3593..3853, 3638..4045, 3710..4099, 3711..3959, 3782..4165, 3875..4051, 3983..4246, 3993..4097, 4016..4168, 4157..4456, 4169..4486, 4175..4480, 4181..4471, 4181..4348, 4199..4486, 4289..4480, 4424..4564, 4490..4609, 4490..4603, 4490..4573, 4583..4621		

Seq. No.	45312	Seq. ID	OJ000251_33.0331.C3
Gene No.	95792	Strand	-
Start	7627	End	12736
Name	OJ000251_33.0331.C3.o3.tm	Method	TBLASTX:Maize
Start	1699	End	1962
GI	none	Score	249
Exons	1699..1962, 1724..1918, 1747..1947		

Seq. No.	45312	Seq. ID	OJ000251_33.0331.C3
Gene No.	95792	Strand	-
Start	7627	End	12736
Name	OJ000251_33.0331.C3.o1.ts	Method	TBLASTX:Soybean
Start	1723	End	4621
GI	none	Score	136

Exons 1723..1938, 1751..1918, 1756..1929, 1936..2043, 1940..2071,  
1942..2040, 1955..2044, 2237..2752, 2237..2845, 2271..2837,  
2975..3115, 2975..4294, 2979..3371, 3132..3386, 3495..4154,  
4169..4564, 4169..4390, 4181..4480, 4190..4486, 4190..4456,  
4208..4480, 4217..4471, 4289..4471, 4316..4435, 4496..4621,  
4583..4621

Seq. No.	45312	Seq. ID	OJ000251_33.0331.C3
Gene No.	95792	Strand	-
Start	7627	End	12736
Name	OJ000251_33.0331.C3.o1.tm	Method	TBLASTX:Maize
Start	1969	End	2858
GI	none	Score	71
Exons	1969..2040, 1969..2043, 2220..2852, 2237..2857, 2248..2769, 2271..2858		

Seq. No.	45312	Seq. ID	OJ000251_33.0331.C3
Gene No.	95792	Strand	-
Start	7627	End	12736
Name	OJ000251_33.0331.C3.o1.tw	Method	TBLASTX:Wheat
Start	2333	End	2656
GI	none	Score	244
Exons	2333..2656, 2334..2651		

Seq. No.	45312	Seq. ID	OJ000251_33.0331.C3
Gene No.	95792	Strand	-
Start	7627	End	12736
Name	OJ000251_33.0331.C3.o2.tm	Method	TBLASTX:Maize
Start	2866	End	4480
GI	none	Score	440
Exons	2866..3396, 2867..3397, 2877..3401, 2912..3400, 2934..3401, 3125..3460, 3203..3466, 3494..3829, 3566..3892, 3632..3937, 3782..4084, 3855..4157, 3920..4165, 3998..4165, 4065..4166, 4139..4270, 4163..4471, 4181..4336, 4217..4480, 4272..4373		

Seq. No.	45312	Seq. ID	OJ000251_33.0331.C3
Gene No.	95792	Strand	-
Start	7627	End	12736
Name	OJ000251_33.0331.C3.o3.tw	Method	TBLASTX:Wheat
Start	3059	End	4684
GI	none	Score	104
Exons	3059..3316, 3074..3400, 3146..3475, 3494..3748, 3581..3892, 3653..3937, 3725..4021, 3800..4117, 3864..4157, 3869..4165, 3983..4171, 4181..4327, 4187..4480, 4232..4480, 4586..4684		

Seq. No.	45312	Seq. ID	OJ000251_33.0331.C3
Gene No.	95792	Strand	-
Start	7627	End	12736
Name	OJ000251_33.0331.C3.o5.gp	Method	AAT/GAP
Start	6309	End	6912
GI	3761363	Score	881
Exons	6309..6912		
GI Descrip.	5852170/emb AL117265.1 OST17804 1.0e-151 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	45312	Seq. ID	OJ000251_33.0331.C3
Gene No.	95792	Strand	-



Start	7627	End	12736
Name	OJ000251_33.0331.C3.o2.np	Method	AAT/NAP
Start	6871	End	12736
GI	6063554	Score	211
Exons	6871..7044, 7658..7689, 8345..8458, 8524..8643, 8834..9013, 9626..9763, 12680..12736		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	45312	Seq. ID	OJ000251_33.0331.C3
Gene No.	95792	Strand	-
Start	7627	End	12736
Name	OJ000251_33.0331.C3.o6.gp	Method	AAT/GAP
Start	7456	End	7706
GI	101153_1.R1084	Score	392
Exons	7456..7706		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	45312	Seq. ID	OJ000251_33.0331.C3
Gene No.	95792	Strand	-
Start	7627	End	12736
Name	OJ000251_33.0331.C3.o2.gs	Method	GENSCAN
Start	7627	End	11363
GI	none	Score	.76
Exons	7627..7686, 8198..8326, 8332..8584, 8947..8992, 9508..9669, 11303..11363		

Seq. No.	45312	Seq. ID	OJ000251_33.0331.C3
Gene No.	95792	Strand	-
Start	7627	End	12736
Name	OJ000251_33.0331.C3.o7.gp	Method	AAT/GAP
Start	12264	End	12736
GI	576771	Score	803
Exons	12264..12518, 12545..12736		
GI Descrip.	576771/gb U16256 OSU16256 0.0e+00 Oryza sativa cone SR1 sucrose-regulated mRNA, 3'-end sequence		

Seq. No.	45313	Seq. ID	OJ000251_33.0331.C5
Gene No.	95793	Strand	+
Start	65	End	2153
Name	OJ000251_33.0331.C5.o1.gs	Method	GENSCAN
Start	65	End	2153
GI	none	Score	.74
Exons	65..208, 515..710, 1977..2153		

Seq. No.	45313	Seq. ID	OJ000251_33.0331.C5
Gene No.	95794	Strand	-
Start	3172	End	3342
Name	OJ000251_33.0331.C5.o2.gs	Method	GENSCAN
Start	3172	End	3342
GI	none	Score	.97
Exons	3172..3342		

Seq. No.	45314	Seq. ID	OJ000251_33.0331.C7
Gene No.	95795	Strand	+

Start	5077	End	6538
Name	OJ000251_33.0331.C7.o2.gs	Method	GENSCAN
Start	5077	End	6538
GI	none	Score	.74
Exons	5077..5097, 5952..6081, 6309..6538		

Seq. No.	45314	Seq. ID	OJ000251_33.0331.C7
Gene No.	95796	Strand	+
Start	7976	End	12076
Name	OJ000251_33.0331.C7.o3.gs	Method	GENSCAN
Start	7976	End	12064
GI	none	Score	.51
Exons	7976..8090, 8616..8873, 9666..9990, 10073..10298, 10419..10616, 10747..10856, 11309..11404, 11487..11574, 11835..12064		

Seq. No.	45314	Seq. ID	OJ000251_33.0331.C7
Gene No.	95796	Strand	+
Start	7976	End	12076
Name	OJ000251_33.0331.C7.o2.np	Method	AAT/NAP
Start	9601	End	12076
GI	7486570	Score	1424
Exons	9601..9990, 10073..10298, 10419..10670, 10747..10856, 11309..11404, 11487..11574, 11835..12076		

GI Descrip. hypothetical protein F7H19.180 - Arabidopsis thaliana

Seq. No.	45314	Seq. ID	OJ000251_33.0331.C7
Gene No.	95797	Strand	-
Start	1	End	421
Name	OJ000251_33.0331.C7.o1.gp	Method	AAT/GAP
Start	1	End	421
GI	LIB3432-059-P1-K1-D8	Score	748
Exons	1..421		
GI Descrip.	'5734616/dbj AP000391.1 AP000391 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	45314	Seq. ID	OJ000251_33.0331.C7
Gene No.	95798	Strand	-
Start	581	End	3448
Name	OJ000251_33.0331.C7.o1.gs	Method	GENSCAN
Start	581	End	3448
GI	none	Score	.84
Exons	581..596, 1179..1249, 2783..2915, 3034..3235, 3322..3448		

Seq. No.	45314	Seq. ID	OJ000251_33.0331.C7
Gene No.	95798	Strand	-
Start	581	End	3448
Name	OJ000251_33.0331.C7.o1.np	Method	AAT/NAP
Start	1131	End	3212
GI	7267281	Score	534
Exons	1131..1249, 1444..1510, 1599..1669, 1743..1794, 1955..2018, 2383..2432, 2839..2897, 3034..3212		
GI Descrip.	(AL161503) putative protein [Arabidopsis thaliana]		

Seq. No.	45314	Seq. ID	OJ000251_33.0331.C7
Gene No.	95798	Strand	-
Start	581	End	3448
Name	OJ000251_33.0331.C7.o2.tm	Method	TBLASTX:Maize

Start	1749	End	3233
GI	none	Score	117
Exons	1749..1796, 2837..2914, 2838..2915, 3031..3216, 3036..3233		

Seq. No.	45314	Seq. ID	OJ000251_33.0331.C7
Gene No.	95799	Strand	
Start	10094	End	10668
Name	OJ000251_33.0331.C7.o1.tm	Method	TBLASTX:Maize
Start	10094	End	10668
GI	none	Score	67
Exons	10094..10144, 10095..10148, 10148..10276, 10149..10277, 10394..10663, 10432..10593, 10443..10664, 10447..10668, 10449..10664		

Seq. No.	45314	Seq. ID	OJ000251_33.0331.C7
Gene No.	95800	Strand	
Start	10765	End	11555
Name	OJ000251_33.0331.C7.o3.tm	Method	TBLASTX:Maize
Start	10765	End	11555
GI	none	Score	154
Exons	10765..10863, 10770..10862, 11309..11404, 11309..11404, 11310..11417, 11470..11550, 11471..11551, 11487..11555, 11488..11553		

Seq. No.	45314	Seq. ID	OJ000251_33.0331.C7
Gene No.	95801	Strand	
Start	11832	End	12068
Name	OJ000251_33.0331.C7.o1.ts	Method	TBLASTX:Soybean
Start	11832	End	12068
GI	none	Score	251
Exons	11832..12068, 11857..11988, 11921..12067		

Seq. No.	45315	Seq. ID	OJ000251_33.0331.C8
Gene No.	95802	Strand	+
Start	9	End	2319
Name	OJ000251_33.0331.C8.o1.np	Method	AAT/NAP
Start	9	End	2319
GI	7486571	Score	1116
Exons	9..66, 155..357, 614..946, 1080..1181, 1891..2319		
GI Descrip.	hypothetical protein F7H19.190 - Arabidopsis thaliana		

Seq. No.	45315	Seq. ID	OJ000251_33.0331.C8
Gene No.	95802	Strand	+
Start	9	End	2319
Name	OJ000251_33.0331.C8.o1.ts	Method	TBLASTX:Soybean
Start	156	End	823
GI	none	Score	330
Exons	156..359, 157..360, 595..807, 599..823		

Seq. No.	45315	Seq. ID	OJ000251_33.0331.C8
Gene No.	95802	Strand	+
Start	9	End	2319
Name	OJ000251_33.0331.C8.o2.tm	Method	TBLASTX:Maize
Start	156	End	372
GI	none	Score	364
Exons	156..356, 157..372		

Seq. No.	45315	Seq. ID	OJ000251_33.0331.C8
Gene No.	95802	Strand	+
Start	9	End	2319
Name	OJ000251_33.0331.C8.o1.gs	Method	GENSCAN
Start	235	End	2192
GI	none	Score	.67
Exons	235..357, 614..946, 1080..1181, 1891..2192		

Seq. No.	45315	Seq. ID	OJ000251_33.0331.C8
Gene No.	95802	Strand	+
Start	9	End	2319
Name	OJ000251_33.0331.C8.o1.tm	Method	TBLASTX:Maize
Start	613	End	898
GI	none	Score	506
Exons	613..897, 614..898, 614..898		

Seq. No.	45315	Seq. ID	OJ000251_33.0331.C8
Gene No.	95802	Strand	+
Start	9	End	2319
Name	OJ000251_33.0331.C8.o3.tm	Method	TBLASTX:Maize
Start	902	End	1181
GI	none	Score	61
Exons	902..955, 1078..1173, 1080..1181, 1080..1181		

Seq. No.	45315	Seq. ID	OJ000251_33.0331.C8
Gene No.	95802	Strand	+
Start	9	End	2319
Name	OJ000251_33.0331.C8.o1.gp	Method	AAT/GAP
Start	1949	End	2188
GI	LIB3433-027-P1-K1-B11	Score	437
Exons	1949..2188		
GI Descrip.	'5139333/emb CAB45564.1  6.0e-42 (AL031018) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	45316	Seq. ID	OJ000251_33.0331.C9
Gene No.	95803	Strand	+
Start	1	End	1674
Name	OJ000251_33.0331.C9.o1.gs	Method	GENSCAN
Start	1	End	1674
GI	none	Score	.59
Exons	1..1674		

Seq. No.	45316	Seq. ID	OJ000251_33.0331.C9
Gene No.	95803	Strand	+
Start	1	End	1674
Name	OJ000251_33.0331.C9.o1.np	Method	AAT/NAP
Start	1	End	1293
GI	7489509	Score	600
Exons	1..1293		
GI Descrip.	NBS-LRR type resistance protein - rice (fragment) gi 2792238 gb AAB96994.1  (AF032697) NBS-LRR type resistance protein [Oryza sativa]		

Seq. No.	45316	Seq. ID	OJ000251_33.0331.C9
Gene No.	95803	Strand	+
Start	1	End	1674
Name	OJ000251_33.0331.C9.o1.tm	Method	TBLASTX:Maize

Start	295	End	693
GI	none	Score	93
Exons	295..396, 309..386, 319..387, 421..693, 516..692		

Seq. No.	45317	Seq. ID	OJ000251_33.0331.C10
Gene No.	95804	Strand	+
Start	1186	End	5073
Name	OJ000251_33.0331.C10.o1.gp	Method	AAT/GAP
Start	1186	End	5073
GI	1007_1.R1084	Score	1135
Exons	1186..1393, 3710..3787, 4640..5073		
GI Descrip.	'2497903/sp P94029 MT21_ORYSA 2.0e-17 METALLOTHIONEIN-LIKE PROTEIN TYPE 2 >gi_1752831 dbj_BAA14038.1_ (D89931) metallothionein-like protein [Oryza sativa] >gi_1815628 (U43530) metallothionein-like type 2 [Oryza sativa]'		

Seq. No.	45317	Seq. ID	OJ000251_33.0331.C10
Gene No.	95804	Strand	+
Start	1186	End	5073
Name	OJ000251_33.0331.C10.o1.gs	Method	GENSCAN
Start	1325	End	1724
GI	none	Score	.96
Exons	1325..1393, 1692..1724		

Seq. No.	45317	Seq. ID	OJ000251_33.0331.C10
Gene No.	95804	Strand	+
Start	1186	End	5073
Name	OJ000251_33.0331.C10.o1.np	Method	AAT/NAP
Start	1329	End	4742
GI	2497903	Score	416
Exons	1329..1393, 3710..3787, 4640..4742		
GI Descrip.	METALLOTHIONEIN-LIKE PROTEIN TYPE 2 gi 7441820 pir  T03727 metallothionein-like protein - rice gi 1752831 dbj BAA14038.1  (D89931) metallothionein-like protein [Oryza sativa] gi 1815628 gb AAC49627.1  (U43530) metallothionein-like type 2 [Oryza sativa]		

Seq. No.	45317	Seq. ID	OJ000251_33.0331.C10
Gene No.	95805	Strand	-
Start	2392	End	3671
Name	OJ000251_33.0331.C10.o2.gs	Method	GENSCAN
Start	2392	End	3671
GI	none	Score	.65
Exons	2392..3064, 3333..3384, 3554..3671		

Seq. No.	45317	Seq. ID	OJ000251_33.0331.C10
Gene No.	95806	Strand	-
Start	5262	End	5712
Name	OJ000251_33.0331.C10.o3.gs	Method	GENSCAN
Start	5262	End	5712
GI	none	Score	.54
Exons	5262..5420, 5489..5635, 5641..5712		

Seq. No.	45317	Seq. ID	OJ000251_33.0331.C10
Gene No.	95807	Strand	-
Start	8874	End	9353
Name	OJ000251_33.0331.C10.o1.tm	Method	TBLASTX:Maize

Start	2166	End	2697
GI	none	Score	59
Exons	2166..2372, 2440..2613, 2632..2697		

Seq. No.	45317	Seq. ID	OJ000251_33.0331.C10
Gene No.	95807	Strand	-
Start	8874	End	9353
Name	OJ000251_33.0331.C10.o2.tm	Method	TBLASTX:Maize
Start	3322	End	3695
GI	none	Score	161
Exons	3322..3624, 3327..3695		

Seq. No.	45317	Seq. ID	OJ000251_33.0331.C10
Gene No.	95807	Strand	-
Start	8874	End	9353
Name	OJ000251_33.0331.C10.o5.gs	Method	GENSCAN
Start	8874	End	9353
GI	none	Score	.4
Exons	8874..9353		

Seq. No.	45318	Seq. ID	OJ000251_33.0331.C11
Gene No.	95808	Strand	-
Start	1679	End	1901
Name	OJ000251_33.0331.C11.o1.gp	Method	AAT/GAP
Start	1679	End	1901
GI	3767777	Score	289
Exons	1679..1901		

Seq. No.	45319	Seq. ID	OJ000251_33.0331.C12
Gene No.	95809	Strand	+
Start	1	End	453
Name	OJ000251_33.0331.C12.o1.np	Method	AAT/NAP
Start	1	End	453
GI	5852084	Score	89
Exons	1..37, 369..453		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	45319	Seq. ID	OJ000251_33.0331.C12
Gene No.	95809	Strand	+
Start	1	End	453
Name	OJ000251_33.0331.C12.o1.gs	Method	GENSCAN
Start	227	End	262
GI	none	Score	.45
Exons	227..262		

Seq. No.	45320	Seq. ID	OJ000251_33.0331.C13
Gene No.	95810	Strand	+
Start	3048	End	4430
Name	OJ000251_33.0331.C13.o2.gs	Method	GENSCAN
Start	3048	End	4430
GI	none	Score	.86
Exons	3048..3065, 3371..3618, 3945..4094, 4118..4430		

Seq. No.	45320	Seq. ID	OJ000251_33.0331.C13
Gene No.	95811	Strand	-
Start	71	End	1860
Name	OJ000251_33.0331.C13.o1.gp	Method	AAT/GAP

Start 71  
GI none  
Exons 71..331, 1771..1860

End 1860  
Score 625

Seq. No. 45320  
Gene No. 95812  
Start 2495  
Name OJ000251\_33.0331.C13.o2.gp  
Start 2495  
GI 5003145  
Exons 2495..2918

Seq. ID OJ000251\_33.0331.C13  
Strand -  
End 2918  
Method AAT/GAP  
End 2918  
Score 811

Seq. No. 45320  
Gene No. 95813  
Start 4665  
Name OJ000251\_33.0331.C13.o3.gs  
Start 4665  
GI none  
Exons 4665..4818, 5124..5207, 5596..5680

Seq. ID OJ000251\_33.0331.C13  
Strand -  
End 5680  
Method GENSCAN  
End 5680  
Score .45

Seq. No. 45321  
Gene No. 95814  
Start 1060  
Name OJ000251\_33.0331.C14.o1.gs  
Start 1060  
GI none  
Exons 1060..2259

Seq. ID OJ000251\_33.0331.C14  
Strand +  
End 2259  
Method GENSCAN  
End 2259  
Score .79

Seq. No. 45321  
Gene No. 95815  
Start 3597  
Name OJ000251\_33.0331.C14.o1.tm  
Start 1498  
GI none  
Exons 1498..1602, 1500..1601, 1609..1770, 1660..1746, 1773..1880, 1774..1881

Seq. ID OJ000251\_33.0331.C14  
Strand +  
End 5636  
Method TBLASTX:Maize  
End 1881  
Score 104

Seq. No. 45321  
Gene No. 95815  
Start 3597  
Name OJ000251\_33.0331.C14.o2.gs  
Start 3597  
GI none  
Exons 3597..3634, 4942..5022, 5357..5636

Seq. ID OJ000251\_33.0331.C14  
Strand +  
End 5636  
Method GENSCAN  
End 5636  
Score .85

Seq. No. 45322  
Gene No. 95816  
Start 6  
Name OJ000251\_33.0331.C15.o1.gs  
Start 6  
GI none  
Exons 6..323

Seq. ID OJ000251\_33.0331.C15  
Strand +  
End 570  
Method GENSCAN  
End 323  
Score .94

Seq. No. 45322  
Gene No. 95816  
Start 6  
Name OJ000251\_33.0331.C15.o1.gp

Seq. ID OJ000251\_33.0331.C15  
Strand +  
End 570  
Method AAT/GAP

Start 216  
GI none  
Exons 216..570

End 570  
Score 686

Seq. No. 45322  
Gene No. 95817  
Start 1095  
Name OJ000251\_33.0331.C15.o2.gp  
Start 1095  
GI none  
Exons 1095..1548

Seq. ID OJ000251\_33.0331.C15  
Strand -  
End 1548  
Method AAT/GAP  
End 1548  
Score 859

Seq. No. 45323  
Gene No. 95818  
Start 4256  
Name OJ000251\_33.0331.C16.o3.gs  
Start 4256  
GI none  
Exons 4256..4684, 4976..5124, 5341..5395

Seq. ID OJ000251\_33.0331.C16  
Strand +  
End 5395  
Method GENSCAN  
End 5395  
Score .78

Seq. No. 45323  
Gene No. 95819  
Start 11947  
Name OJ000251\_33.0331.C16.o2.np  
Start 11947  
GI 7523517  
Exons 11947..12244, 12389..12443, 14012..14034  
GI Descrip. (AP001633) hypothetical protein [Oryza sativa]

Seq. ID OJ000251\_33.0331.C16  
Strand +  
End 14034  
Method AAT/NAP  
End 14034  
Score 344

Seq. No. 45323  
Gene No. 95820  
Start 1089  
Name OJ000251\_33.0331.C16.o1.gs  
Start 1089  
GI none  
Exons 1089..1127, 1260..1310, 1413..1505, 1584..1693, 1992..2073, 2702..2875

Seq. ID OJ000251\_33.0331.C16  
Strand -  
End 2875  
Method GENSCAN  
End 2875  
Score .57

Seq. No. 45323  
Gene No. 95821  
Start 3190  
Name OJ000251\_33.0331.C16.o2.gs  
Start 3190  
GI none  
Exons 3190..3525

Seq. ID OJ000251\_33.0331.C16  
Strand -  
End 3525  
Method GENSCAN  
End 3525  
Score .99

Seq. No. 45323  
Gene No. 95822  
Start 3865  
Name OJ000251\_33.0331.C16.o1.np  
Start 3865  
GI 7339707  
Exons 3865..3969, 4648..4807, 9607..10041  
GI Descrip. (AP001539) hypothetical protein [Oryza sativa]

Seq. ID OJ000251\_33.0331.C16  
Strand -  
End 10041  
Method AAT/NAP  
End 10041  
Score 69

Seq. No. 45324  
Gene No. 95823

Seq. ID OJ000251\_33.0331.C20  
Strand -



Start	714	End	1369
Name	OJ000251_33.0331.C20.o1.gs	Method	GENSCAN
Start	714	End	1369
GI	none	Score	.5
Exons	714..816, 1056..1258, 1283..1369		

Seq. No.	45325	Seq. ID	OJ000251_33.0331.C21
Gene No.	95824	Strand	-
Start	892	End	7859
Name	OJ000251_33.0331.C21.o1.tw	Method	TBLASTX:Wheat
Start	854	End	2153
GI	none	Score	118
Exons	854..961, 855..968, 855..968, 856..972, 1043..1117, 1044..1115, 1045..1116, 1045..1143, 1819..1887, 1819..1896, 1829..1891, 1865..2032, 1947..2030, 1963..2034, 2121..2153, 2125..2151		

Seq. No.	45325	Seq. ID	OJ000251_33.0331.C21
Gene No.	95824	Strand	-
Start	892	End	7859
Name	OJ000251_33.0331.C21.o1.tm	Method	TBLASTX:Maize
Start	885	End	2893
GI	none	Score	97
Exons	885..959, 886..960, 886..972, 1043..1117, 1044..1109, 1045..1116, 1045..1134, 1800..1883, 1800..1877, 1801..1884, 1801..1896, 1808..1891, 1946..2032, 1963..2034, 2115..2228, 2121..2228, 2123..2242, 2131..2229, 2335..2568, 2336..2575, 2340..2495, 2342..2569, 2552..2893, 2571..2603, 2581..2607, 2604..2861		

Seq. No.	45325	Seq. ID	OJ000251_33.0331.C21
Gene No.	95824	Strand	-
Start	892	End	7859
Name	OJ000251_33.0331.C21.o1.np	Method	AAT/NAP
Start	892	End	6053
GI	1669655	Score	909
Exons	892..960, 1046..1114, 1801..1878, 1963..2029, 2123..2227, 2340..2869, 2946..3162, 4361..4975, 5056..5099, 5413..6053		
GI Descrip.	(X95962) CER3 [Arabidopsis thaliana]		

Seq. No.	45325	Seq. ID	OJ000251_33.0331.C21
Gene No.	95824	Strand	-
Start	892	End	7859
Name	OJ000251_33.0331.C21.o3.ts	Method	TBLASTX:Soybean
Start	898	End	2214
GI	none	Score	73
Exons	898..972, 1043..1117, 1801..1896, 1808..1897, 1963..2034, 2123..2209, 2134..2214		

Seq. No.	45325	Seq. ID	OJ000251_33.0331.C21
Gene No.	95824	Strand	-
Start	892	End	7859
Name	OJ000251_33.0331.C21.o2.gs	Method	GENSCAN
Start	1817	End	7450
GI	none	Score	.54
Exons	1817..1878, 2123..2227, 2428..2624, 2682..2869, 2955..3020, 3324..3491, 3512..3750, 4331..4941, 5413..6032, 6236..6430, 6680..7026, 7083..7450		

Seq. No.	45325	Seq. ID	OJ000251_33.0331.C21
Gene No.	95824	Strand	-
Start	892	End	7859
Name	OJ000251_33.0331.C21.o1.gp	Method	AAT/GAP
Start	2002	End	3168
GI	18254_1.R1084	Score	1668
Exons	2002..2029, 2123..2227, 2340..2869, 2955..3168		
GI Descrip.	'1669655/emb CAA65198  2.0e-56 (X95962) CER3 [Arabidopsis thaliana]'		

Seq. No.	45325	Seq. ID	OJ000251_33.0331.C21
Gene No.	95824	Strand	-
Start	892	End	7859
Name	OJ000251_33.0331.C21.o2.ts	Method	TBLASTX:Soybean
Start	2354	End	2821
GI	none	Score	60
Exons	2354..2557, 2603..2821, 2604..2711		

Seq. No.	45325	Seq. ID	OJ000251_33.0331.C21
Gene No.	95824	Strand	-
Start	892	End	7859
Name	OJ000251_33.0331.C21.o2.tm	Method	TBLASTX:Maize
Start	2985	End	5537
GI	none	Score	83
Exons	2985..3026, 2986..3060, 2989..3060, 3034..3156, 3059..3163, 3059..3163, 3087..3164, 4329..4544, 4330..4542, 4331..4573, 4540..4839, 4542..4817, 4549..4824, 4864..4971, 4866..4970, 4868..4987, 5044..5100, 5048..5101, 5048..5101, 5055..5102, 5410..5523, 5410..5526, 5412..5537, 5414..5536		

Seq. No.	45325	Seq. ID	OJ000251_33.0331.C21
Gene No.	95824	Strand	-
Start	892	End	7859
Name	OJ000251_33.0331.C21.o4.ts	Method	TBLASTX:Soybean
Start	4368	End	4865
GI	none	Score	132
Exons	4368..4526, 4563..4865		

Seq. No.	45325	Seq. ID	OJ000251_33.0331.C21
Gene No.	95824	Strand	-
Start	892	End	7859
Name	OJ000251_33.0331.C21.o2.gp	Method	AAT/GAP
Start	5049	End	5660
GI	uC-osrocyp007b11b1	Score	562
Exons	5049..5099, 5413..5660		
GI Descrip.	'1669655/emb CAA65198  3.0e-12 (X95962) CER3 [Arabidopsis thaliana]'		

Seq. No.	45325	Seq. ID	OJ000251_33.0331.C21
Gene No.	95824	Strand	-
Start	892	End	7859
Name	OJ000251_33.0331.C21.o2.np	Method	AAT/NAP
Start	6205	End	7758
GI	7406426	Score	692
Exons	6205..6430, 6680..7031, 7083..7440, 7525..7758		
GI Descrip.	(A1162874) ubiquitin-protein ligase E3-alpha-like protein		

[Arabidopsis thaliana]

Seq. No.	45325	Seq. ID	OJ000251_33.0331.C21
Gene No.	95824	Strand	-
Start	892	End	7859
Name	OJ000251_33.0331.C21.o1.ts	Method	TBLASTX:Soybean
Start	7090	End	7605
GI	none	Score	75
Exons	7090..7446, 7121..7192, 7253..7441, 7525..7584, 7525..7605		

Seq. No.	45325	Seq. ID	OJ000251_33.0331.C21
Gene No.	95824	Strand	-
Start	892	End	7859
Name	OJ000251_33.0331.C21.o3.gp	Method	AAT/GAP
Start	7357	End	7859
GI	LIB3474-012-P1-K1-G1	Score	609
Exons	7357..7440, 7525..7859		
GI Descrip.	'2224639/dbj BAA20806  6.0e-11 (AB002347) KIAA0349 [Homo sapiens]'		

Seq. No.	45326	Seq. ID	OJ000251_33.0331.C22
Gene No.	95825	Strand	-
Start	1	End	2858
Name	OJ000251_33.0331.C22.o1.np	Method	AAT/NAP
Start	1	End	2858
GI	7406426	Score	1261
Exons	1..299, 336..600, 649..1198, 1706..2858		
GI Descrip.	(AL162874) ubiquitin-protein ligase E3-alpha-like protein [Arabidopsis thaliana]		

Seq. No.	45326	Seq. ID	OJ000251_33.0331.C22
Gene No.	95825	Strand	-
Start	1	End	2858
Name	OJ000251_33.0331.C22.o1.tm	Method	TBLASTX:Maize
Start	61	End	347
GI	none	Score	103
Exons	61..150, 64..141, 173..229, 177..230, 177..230, 178..231, 226..339, 227..343, 228..338, 230..346, 240..347		

Seq. No.	45326	Seq. ID	OJ000251_33.0331.C22
Gene No.	95825	Strand	-
Start	1	End	2858
Name	OJ000251_33.0331.C22.o1.gs	Method	GENSCAN
Start	301	End	2794
GI	none	Score	.53
Exons	301..1198, 1784..2794		

Seq. No.	45326	Seq. ID	OJ000251_33.0331.C22
Gene No.	95825	Strand	-
Start	1	End	2858
Name	OJ000251_33.0331.C22.o1.ts	Method	TBLASTX:Soybean
Start	839	End	1115
GI	none	Score	102
Exons	839..1114, 849..1115		

Seq. No.	45326	Seq. ID	OJ000251_33.0331.C22
Gene No.	95825	Strand	-

Start	1	End	2858
Name	OJ000251_33.0331.C22.o2.tm	Method	TBLASTX:Maize
Start	989	End	1209
GI	none	Score	170
Exons	989..1201, 989..1204, 1000..1209, 1039..1209		

Seq. No.	45327	Seq. ID	OJ000251_33.0331.C23
Gene No.	95826	Strand	+
Start	1978	End	3681
Name	OJ000251_33.0331.C23.o1.gs	Method	GENSCAN
Start	1978	End	3681
GI	none	Score	.63
Exons	1978..2001, 3541..3681		

Seq. No.	45327	Seq. ID	OJ000251_33.0331.C23
Gene No.	95827	Strand	-
Start	4798	End	5591
Name	OJ000251_33.0331.C23.o2.gs	Method	GENSCAN
Start	4798	End	5591
GI	none	Score	.4
Exons	4798..4839, 4957..5177, 5585..5591		

Seq. No.	45328	Seq. ID	OJ000251_33.0331.C24
Gene No.	95828	Strand	+
Start	477	End	3240
Name	OJ000251_33.0331.C24.o1.np	Method	AAT/NAP
Start	477	End	2813
GI	1351270	Score	977
Exons	477..593, 727..850, 1205..1289, 1560..1692, 2174..2268, 2398..2476, 2594..2676, 2769..2813		
GI Descrip.	TRIOSEPHOSPHATE ISOMERASE, CYTOSOLIC (TIM) gi 478410 pir  JQ2255 triose-phosphate isomerase (EC 5.3.1.1) - rice gi 169821 gb AA18541.1  (M87064) triosephosphate isomerase [Oryza sativa]		

Seq. No.	45328	Seq. ID	OJ000251_33.0331.C24
Gene No.	95828	Strand	+
Start	477	End	3240
Name	OJ000251_33.0331.C24.o1.gp	Method	AAT/GAP
Start	518	End	3240
GI	424_1.R1084	Score	2100
Exons	518..593, 727..850, 1205..1289, 1560..1692, 2174..2268, 2398..2476, 2594..2676, 2769..3240		
GI Descrip.	'1351270/sp P48494 TPIS_ORYSA 1.0e-139 TRIOSEPHOSPHATE ISOMERASE, CYTOSOLIC (TIM) >gi_478410_pir_JQ2255 triose-phosphate isomerase (EC 5.3.1.1) - rice >gi_169821 (M87064) triosephosphate isomerase [Oryza sativa]'		

Seq. No.	45328	Seq. ID	OJ000251_33.0331.C24
Gene No.	95828	Strand	+
Start	477	End	3240
Name	OJ000251_33.0331.C24.o1.gs	Method	GENSCAN
Start	518	End	2816
GI	none	Score	.89
Exons	518..593, 727..850, 1205..1289, 1560..1692, 2174..2268, 2398..2476, 2594..2676, 2769..2816		

Seq. No.	45328	Seq. ID	OJ000251_33.0331.C24
Gene No.	95829	Strand	+
Start	4179	End	6573
Name	OJ000251_33.0331.C24.o1.tm	Method	TBLASTX:Maize
Start	518	End	2813
GI	none	Score	68
Exons	518..592, 725..841, 726..848, 726..848, 776..859, 1197..1280, 1201..1281, 1202..1288, 1203..1289, 1509..1691, 1538..1687, 1561..1695, 2172..2270, 2173..2271, 2382..2477, 2392..2475, 2395..2478, 2592..2675, 2593..2676, 2765..2809, 2769..2813		

Seq. No.	45328	Seq. ID	OJ000251_33.0331.C24
Gene No.	95829	Strand	+
Start	4179	End	6573
Name	OJ000251_33.0331.C24.o1.ts	Method	TBLASTX:Soybean
Start	518	End	2807
GI	none	Score	71
Exons	518..592, 520..624, 718..792, 726..848, 729..848, 776..859, 1197..1289, 1203..1289, 1509..1691, 1559..1687, 2172..2270, 2176..2271, 2395..2478, 2397..2477, 2592..2669, 2593..2682, 2599..2676, 2762..2806, 2772..2807		

Seq. No.	45328	Seq. ID	OJ000251_33.0331.C24
Gene No.	95829	Strand	+
Start	4179	End	6573
Name	OJ000251_33.0331.C24.o2.tc	Method	TBLASTX:Cress
Start	518	End	2217
GI	none	Score	75
Exons	518..592, 518..625, 718..771, 726..848, 794..859, 1203..1289, 1209..1289, 1509..1691, 1552..1671, 1559..1687, 2173..2217		

Seq. No.	45328	Seq. ID	OJ000251_33.0331.C24
Gene No.	95829	Strand	+
Start	4179	End	6573
Name	OJ000251_33.0331.C24.o1.tc	Method	TBLASTX:Cress
Start	2217	End	2813
GI	none	Score	82
Exons	2217..2270, 2218..2271, 2218..2271, 2395..2478, 2397..2477, 2589..2669, 2592..2675, 2593..2676, 2762..2806, 2769..2813		

Seq. No.	45328	Seq. ID	OJ000251_33.0331.C24
Gene No.	95829	Strand	+
Start	4179	End	6573
Name	OJ000251_33.0331.C24.o2.gs	Method	GENSCAN
Start	4179	End	6573
GI	none	Score	.6
Exons	4179..4364, 5410..5707, 5984..6386, 6469..6573		

Seq. No.	45329	Seq. ID	OJ000251_33.0331.C25
Gene No.	95830	Strand	+
Start	1	End	768
Name	OJ000251_33.0331.C25.o1.np	Method	AAT/NAP
Start	1	End	765
GI	2795807	Score	413
Exons	1..113, 214..324, 439..765		
GI Descrip.	(AC003674) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45329	Seq. ID	OJ000251_33.0331.C25
Gene No.	95830	Strand	+
Start	1	End	768
Name	OJ000251_33.0331.C25.o1.gs	Method	GENSCAN
Start	223	End	768
GI	none	Score	.87
Exons	223..324, 439..768		
Seq. No.	45329	Seq. ID	OJ000251_33.0331.C25
Gene No.	95831	Strand	+
Start	2629	End	4819
Name	OJ000251_33.0331.C25.o1.gp	Method	AAT/GAP
Start	2532	End	3139
GI	32592_1.R1084	Score	1124
Exons	2532..3139		
GI Descrip.	'2735841 7.0e-16 (AF010283) No definition line found [Sorghum bicolor]'		
Seq. No.	45329	Seq. ID	OJ000251_33.0331.C25
Gene No.	95831	Strand	+
Start	2629	End	4819
Name	OJ000251_33.0331.C25.o2.gs	Method	GENSCAN
Start	2629	End	4687
GI	none	Score	.8
Exons	2629..2823, 2907..3732, 4659..4687		
Seq. No.	45329	Seq. ID	OJ000251_33.0331.C25
Gene No.	95831	Strand	+
Start	2629	End	4819
Name	OJ000251_33.0331.C25.o3.np	Method	AAT/NAP
Start	2725	End	4819
GI	7485265	Score	313
Exons	2725..3065, 3155..3414, 3445..3773, 4671..4819		
GI Descrip.	hypothetical protein A_IG005I10.22 - Arabidopsis thaliana gi 2252841 gb AAB62840.1  (AF013293) A_IG005I10.22 gene product [Arabidopsis thaliana] gi 6049883 gb AAF02798.1 AF195115_18 (AF195115) F5I10.22 gene product [Arabidopsis thaliana] gi 7267125 emb CAB80796.1  (AL161471) similarity to; contains EST gb:AI995530.1, F14072, F14071, Z26823, AI998935.1 [Arabidopsis thaliana]		
Seq. No.	45329	Seq. ID	OJ000251_33.0331.C25
Gene No.	95831	Strand	+
Start	2629	End	4819
Name	OJ000251_33.0331.C25.o4.np	Method	AAT/NAP
Start	2806	End	4819
GI	7489654	Score	369
Exons	2806..3018, 3116..3431, 3465..3732, 4657..4819		
GI Descrip.	probable transcription regulator protein - sorghum gi 2735841 gb AAB94013.1  (AF010283) No definition line found [Sorghum bicolor]		
Seq. No.	45329	Seq. ID	OJ000251_33.0331.C25
Gene No.	95831	Strand	+
Start	2629	End	4819
Name	OJ000251_33.0331.C25.o2.gp	Method	AAT/GAP
Start	3259	End	3723

GI	2311077	Score	823
Exons	3259..3723		
GI Descrip.	2735841 7.0e-16 (AF010283) No definition line found [Sorghum bicolor]		

Seq. No.	45329	Seq. ID	OJ000251_33.0331.C25
Gene No.	95832	Strand	-
Start	1276	End	1497
Name	OJ000251_33.0331.C25.o2.tm	Method	TBLASTX:Maize
Start	62	End	515
GI	none	Score	71
Exons	62..121, 63..113, 219..329, 226..330, 439..504, 439..501, 447..515, 449..514		

Seq. No.	45329	Seq. ID	OJ000251_33.0331.C25
Gene No.	95832	Strand	-
Start	1276	End	1497
Name	OJ000251_33.0331.C25.o2.np	Method	AAT/NAP
Start	1276	End	1497
GI	6069646	Score	179
Exons	1276..1497		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	45329	Seq. ID	OJ000251_33.0331.C25
Gene No.	95833	Strand	
Start	3422	End	3732
Name	OJ000251_33.0331.C25.o1.tm	Method	TBLASTX:Maize
Start	3422	End	3732
GI	none	Score	277
Exons	3422..3715, 3468..3731, 3478..3732		

Seq. No.	45329	Seq. ID	OJ000251_33.0331.C25
Gene No.	95834	Strand	
Start	4668	End	4818
Name	OJ000251_33.0331.C25.o3.tm	Method	TBLASTX:Maize
Start	4668	End	4818
GI	none	Score	183
Exons	4668..4814, 4681..4818, 4681..4818		

Seq. No.	45330	Seq. ID	OJ000251_33.0331.C26
Gene No.	95835	Strand	+
Start	1	End	839
Name	OJ000251_33.0331.C26.o1.np	Method	AAT/NAP
Start	1	End	800
GI	6587797	Score	417
Exons	1..137, 262..474, 573..800		
GI Descrip.	(AC010924) Contains similarity to gb AF136530 transcriptional regulator from Zea mays. ESTs gb F14071, gb Z26823, gb AI998935 come from this gene. [Arabidopsis thaliana]		

Seq. No.	45330	Seq. ID	OJ000251_33.0331.C26
Gene No.	95835	Strand	+
Start	1	End	839

Name	OJ000251_33.0331.C26.o1.tm	Method	TBLASTX:Maize
Start	4	End	839
GI	none	Score	116
Exons	4..135, 4..138, 11..139, 50..145, 259..474, 261..476, 531..839, 573..785, 593..808, 637..816		

Seq. No.	45330	Seq. ID	OJ000251_33.0331.C26
Gene No.	95835	Strand	+
Start	1	End	839
Name	OJ000251_33.0331.C26.o1.gs	Method	GENSCAN
Start	12	End	806
GI	none	Score	.95
Exons	12..137, 262..474, 573..806		

Seq. No.	45330	Seq. ID	OJ000251_33.0331.C26
Gene No.	95835	Strand	+
Start	1	End	839
Name	OJ000251_33.0331.C26.o2.tc	Method	TBLASTX:Cress
Start	259	End	477
GI	none	Score	191
Exons	259..447, 259..477		

Seq. No.	45330	Seq. ID	OJ000251_33.0331.C26
Gene No.	95835	Strand	+
Start	1	End	839
Name	OJ000251_33.0331.C26.o1.ts	Method	TBLASTX:Soybean
Start	295	End	725
GI	none	Score	186
Exons	295..474, 303..476, 573..725, 596..724		

Seq. No.	45330	Seq. ID	OJ000251_33.0331.C26
Gene No.	95835	Strand	+
Start	1	End	839
Name	OJ000251_33.0331.C26.o1.tc	Method	TBLASTX:Cress
Start	570	End	766
GI	none	Score	225
Exons	570..752, 573..764, 614..766		

Seq. No.	45331	Seq. ID	OJ000251_33.0331.C27
Gene No.	95836	Strand	+
Start	1	End	540
Name	OJ000251_33.0331.C27.o1.gp	Method	AAT/GAP
Start	1	End	540
GI	705_3.R1084	Score	1056
Exons	1..540		

GI Descrip. '1362184/pir||S56685 4.0e-44 histone H2B-8 - wheat  
>gi\_531058\_dbj\_BAA07157\_ (D37943) protein H2B-8 [Triticum  
aestivum]'

Seq. No.	45331	Seq. ID	OJ000251_33.0331.C27
Gene No.	95836	Strand	+
Start	1	End	540
Name	OJ000251_33.0331.C27.o1.np	Method	AAT/NAP
Start	1	End	324
GI	1362184	Score	476
Exons	1..324		

GI Descrip. histone H2B-8 - wheat gi|531058|dbj|BAA07157.1| (D37943) protein



## H2B-8 [Triticum aestivum]

Seq. No.	45331	Seq. ID	OJ000251_33.0331.C27
Gene No.	95836	Strand	+
Start	1	End	540
Name	OJ000251_33.0331.C27.o1.tc	Method	TBLASTX:Cress
Start	1	End	339
GI	none	Score	460
Exons	1..339, 9..317		
Seq. No.	45331	Seq. ID	OJ000251_33.0331.C27
Gene No.	95836	Strand	+
Start	1	End	540
Name	OJ000251_33.0331.C27.o1.ts	Method	TBLASTX:Soybean
Start	1	End	351
GI	none	Score	453
Exons	1..351, 33..317		
Seq. No.	45331	Seq. ID	OJ000251_33.0331.C27
Gene No.	95836	Strand	+
Start	1	End	540
Name	OJ000251_33.0331.C27.o1.tm	Method	TBLASTX:Maize
Start	3	End	350
GI	none	Score	489
Exons	3..350, 4..345		
Seq. No.	45331	Seq. ID	OJ000251_33.0331.C27
Gene No.	95836	Strand	+
Start	1	End	540
Name	OJ000251_33.0331.C27.o1.tw	Method	TBLASTX:Wheat
Start	10	End	321
GI	none	Score	53
Exons	10..90, 37..321, 39..320, 39..191, 40..156		
Seq. No.	45331	Seq. ID	OJ000251_33.0331.C27
Gene No.	95836	Strand	+
Start	1	End	540
Name	OJ000251_33.0331.C27.o1.gs	Method	GENSCAN
Start	22	End	327
GI	none	Score	1
Exons	22..327		
Seq. No.	45332	Seq. ID	OJ000251_33.0331.C28
Gene No.	95837	Strand	-
Start	487	End	720
Name	OJ000251_33.0331.C28.o1.gs	Method	GENSCAN
Start	487	End	720
GI	none	Score	.73
Exons	487..720		
Seq. No.	45332	Seq. ID	OJ000251_33.0331.C28
Gene No.	95838	Strand	-
Start	1032	End	1582
Name	OJ000251_33.0331.C28.o1.np	Method	AAT/NAP
Start	1032	End	1582
GI	7228450	Score	214
Exons	1032..1144, 1234..1372, 1507..1582		

GI Descrip. (AP001366) hypothetical protein [Oryza sativa]

Seq. No.	45333	Seq. ID	OJ000251_33.0331.C29
Gene No.	95839	Strand	+
Start	3512	End	4405
Name	OJ000251_33.0331.C29.o1.np	Method	AAT/NAP
Start	3512	End	4405
GI	2126090	Score	1580

Exons 3512..4405

GI Descrip. transposase (insertion sequence IS10) - Escherichia coli  
gi|455676|bbs|140379 (S67119) transposase [Escherichia coli,  
LBB84, plasmid pXT107, IS10L/R-1, Peptide  
PlasmidTransposonInsertionMutant, 402 aa] [Escherichia coli]  
gi|6634720|gb|AAF19728.1|AC012463\_2 (AC012463) T2E6.2  
[Arabidopsis thaliana]

Seq. No.	45333	Seq. ID	OJ000251_33.0331.C29
Gene No.	95840	Strand	-
Start	1140	End	1457
Name	OJ000251_33.0331.C29.o1.gp	Method	AAT/GAP
Start	1140	End	1457
GI	none	Score	544

Exons 1140..1457

Seq. No.	45333	Seq. ID	OJ000251_33.0331.C29
Gene No.	95841	Strand	
Start	3397	End	3552
Name	OJ000251_33.0331.C29.o1.tc	Method	TBLASTX:Cress
Start	3397	End	3552
GI	none	Score	222

Exons 3397..3552, 3401..3550, 3406..3552

Seq. No.	45334	Seq. ID	OJ000251_33.0331.C30
Gene No.	95842	Strand	+
Start	3187	End	3894
Name	OJ000251_33.0331.C30.o1.gp	Method	AAT/GAP
Start	3092	End	3894
GI	705_3.R1084	Score	1398

Exons 3092..3671, 3705..3894

GI Descrip. '1362184/pir||S56685 4.0e-44 histone H2B-8 - wheat  
>gi\_531058\_dbj\_BAA07157\_ (D37943) protein H2B-8 [Triticum  
aestivum]'

Seq. No.	45334	Seq. ID	OJ000251_33.0331.C30
Gene No.	95842	Strand	+
Start	3187	End	3894
Name	OJ000251_33.0331.C30.o2.gs	Method	GENSCAN
Start	3187	End	3648
GI	none	Score	.99

Exons 3187..3648

Seq. No.	45334	Seq. ID	OJ000251_33.0331.C30
Gene No.	95842	Strand	+
Start	3187	End	3894
Name	OJ000251_33.0331.C30.o2.np	Method	AAT/NAP
Start	3187	End	3645
GI	3913804	Score	684

Exons 3187..3645  
 GI Descrip. HISTONE H2B.3 gi|577825|emb|CAA49584| (X69960) H2B histone [Zea mays]

Seq. No.	45334	Seq. ID	OJ000251_33.0331.C30
Gene No.	95843	Strand	-
Start	32	End	1626
Name	OJ000251_33.0331.C30.o1.gs	Method	GENSCAN
Start	32	End	1626
GI	none	Score	.63
Exons	32..839, 1023..1626		

Seq. No.	45334	Seq. ID	OJ000251_33.0331.C30
Gene No.	95843	Strand	-
Start	32	End	1626
Name	OJ000251_33.0331.C30.o1.np	Method	AAT/NAP
Start	526	End	1038
GI	6649087	Score	849
Exons	526..1038		
GI Descrip.	(AF146270) resistance gene analog PIC23 [Oryza sativa]		

Seq. No.	45334	Seq. ID	OJ000251_33.0331.C30
Gene No.	95844	Strand	-
Start	5027	End	6368
Name	OJ000251_33.0331.C30.o3.tm	Method	TBLASTX:Maize
Start	205	End	1023
GI	none	Score	92
Exons	205..477, 206..382, 425..589, 502..603, 799..1023		

Seq. No.	45334	Seq. ID	OJ000251_33.0331.C30
Gene No.	95844	Strand	-
Start	5027	End	6368
Name	OJ000251_33.0331.C30.o1.tc	Method	TBLASTX:Cress
Start	3372	End	3660
GI	none	Score	435
Exons	3372..3638, 3373..3660		

Seq. No.	45334	Seq. ID	OJ000251_33.0331.C30
Gene No.	95844	Strand	-
Start	5027	End	6368
Name	OJ000251_33.0331.C30.o2.tm	Method	TBLASTX:Maize
Start	3372	End	3671
GI	none	Score	450
Exons	3372..3671, 3373..3666		

Seq. No.	45334	Seq. ID	OJ000251_33.0331.C30
Gene No.	95844	Strand	-
Start	5027	End	6368
Name	OJ000251_33.0331.C30.o1.ts	Method	TBLASTX:Soybean
Start	3372	End	3672
GI	none	Score	429
Exons	3372..3638, 3373..3672		

Seq. No.	45334	Seq. ID	OJ000251_33.0331.C30
Gene No.	95844	Strand	-
Start	5027	End	6368
Name	OJ000251_33.0331.C30.o1.tw	Method	TBLASTX:Wheat

Start	3372	End	3642
GI	none	Score	159
Exons	3372..3641, 3372..3512, 3373..3477, 3373..3642, 3598..3642		
Seq. No.	45334	Seq. ID	OJ000251_33.0331.C30
Gene No.	95844	Strand	-
Start	5027	End	6368
Name	OJ000251_33.0331.C30.o3.np	Method	AAT/NAP
Start	5027	End	6368
GI	6522590	Score	712
Exons	5027..5176, 5204..5415, 5578..6368		
GI Descrip.	(AL133292) receptor kinase-like protein [Arabidopsis thaliana]		

Seq. No.	45334	Seq. ID	OJ000251_33.0331.C30
Gene No.	95844	Strand	-
Start	5027	End	6368
Name	OJ000251_33.0331.C30.o4.tm	Method	TBLASTX:Maize
Start	5051	End	5417
GI	none	Score	89
Exons	5051..5416, 5241..5417		

Seq. No.	45334	Seq. ID	OJ000251_33.0331.C30
Gene No.	95844	Strand	-
Start	5027	End	6368
Name	OJ000251_33.0331.C30.o2.ts	Method	TBLASTX:Soybean
Start	5234	End	6169
GI	none	Score	90
Exons	5234..5416, 5310..5417, 5657..5815, 5673..5813, 5864..6067, 5865..6068, 6089..6169, 6096..6143		

Seq. No.	45334	Seq. ID	OJ000251_33.0331.C30
Gene No.	95844	Strand	-
Start	5027	End	6368
Name	OJ000251_33.0331.C30.o1.tm	Method	TBLASTX:Maize
Start	5589	End	6034
GI	none	Score	158
Exons	5589..5813, 5604..6032, 5633..6016, 5657..6034, 5860..6018, 5868..6032		

Seq. No.	45334	Seq. ID	OJ000251_33.0331.C30
Gene No.	95844	Strand	-
Start	5027	End	6368
Name	OJ000251_33.0331.C30.o2.tc	Method	TBLASTX:Cress
Start	5855	End	6169
GI	none	Score	116
Exons	5855..6169, 5874..6122		

Seq. No.	45335	Seq. ID	OJ000251_33.0331.C31
Gene No.	95845	Strand	-
Start	1	End	1281
Name	OJ000251_33.0331.C31.o1.np	Method	AAT/NAP
Start	1	End	1281
GI	7489568	Score	763
Exons	1..1281		
GI Descrip.	protein kinase Xa21 (EC 2.7.1.-), receptor type - rice gi 2586087 gb AAB82756.1  (U72724) receptor kinase-like protein [Oryza sativa]		

Seq. No.	45335	Seq. ID	OJ000251_33.0331.C31
Gene No.	95845	Strand	-
Start	1	End	1281
Name	OJ000251_33.0331.C31.ol.tc	Method	TBLASTX:Cress
Start	3	End	1198
GI	none	Score	156
Exons	3..359, 3..287, 6..359, 6..359, 6..359, 6..299, 6..362, 12..359, 33..359, 33..359, 34..354, 36..362, 106..261, 144..362, 178..336, 225..365, 232..261, 363..629, 363..485, 366..635, 369..629, 369..638, 369..629, 369..629, 369..590, 369..626, 375..488, 384..629, 388..480, 397..630, 399..638, 469..624, 609..758, 609..746, 618..737, 630..740, 630..737, 630..737, 636..740, 682..804, 684..827, 708..839, 747..839, 849..1040, 920..1027, 920..1054, 1047..1082, 1052..1180, 1058..1198, 1058..1189		

Seq. No.	45335	Seq. ID	OJ000251_33.0331.C31
Gene No.	95845	Strand	-
Start	1	End	1281
Name	OJ000251_33.0331.C31.ol.tm	Method	TBLASTX:Maize
Start	6	End	1204
GI	none	Score	60
Exons	6..362, 6..359, 6..359, 13..153, 15..359, 126..362, 303..356, 360..629, 363..629, 363..578, 369..629, 369..626, 375..485, 375..431, 397..480, 397..633, 414..638, 609..740, 636..734, 645..737, 657..740, 738..839, 920..1054, 920..1018, 1052..1204		

Seq. No.	45335	Seq. ID	OJ000251_33.0331.C31
Gene No.	95845	Strand	-
Start	1	End	1281
Name	OJ000251_33.0331.C31.ol.ts	Method	TBLASTX:Soybean
Start	6	End	1213
GI	none	Score	124
Exons	6..359, 6..629, 6..473, 6..359, 24..359, 24..359, 25..360, 33..353, 51..359, 105..359, 174..362, 363..638, 366..626, 366..734, 369..638, 387..737, 387..635, 391..474, 393..626, 397..492, 486..617, 583..633, 630..725, 745..810, 747..839, 747..815, 906..1019, 920..1105, 920..1048, 923..1042, 923..1051, 1151..1213		

Seq. No.	45335	Seq. ID	OJ000251_33.0331.C31
Gene No.	95845	Strand	-
Start	1	End	1281
Name	OJ000251_33.0331.C31.ol.tw	Method	TBLASTX:Wheat
Start	6	End	857
GI	none	Score	65
Exons	6..80, 51..320, 159..245, 168..464, 169..336, 441..629, 486..623, 486..638, 508..627, 558..641, 628..834, 628..843, 630..854, 630..734, 669..857, 708..839		

Seq. No.	45335	Seq. ID	OJ000251_33.0331.C31
Gene No.	95845	Strand	-
Start	1	End	1281
Name	OJ000251_33.0331.C31.ol.gs	Method	GENSCAN
Start	669	End	1207
GI	none	Score	.65

Exons 669..813, 909..1207

Seq. No.	45336	Seq. ID	OJ000251_33.0331.C33
Gene No.	95846	Strand	+
Start	9241	End	14364
Name	OJ000251_33.0331.C33.o3.gs	Method	GENSCAN
Start	9241	End	13990
GI	none	Score	.65
Exons	9241..9497, 9963..10195, 10666..10752, 11340..11420, 11573..11615, 11779..12073, 12087..12855, 13666..13772, 13883..13990		

Seq. No.	45336	Seq. ID	OJ000251_33.0331.C33
Gene No.	95846	Strand	+
Start	9241	End	14364
Name	OJ000251_33.0331.C33.o4.np	Method	AAT/NAP
Start	10730	End	14364
GI	4006882	Score	57
Exons	10730..10766, 12531..12679, 14337..14364		
GI Descrip.	(Z99707) UDP-glucuronyltransferase-like protein [Arabidopsis thaliana] gi 7270638 emb CAB80355.1  (AL161590) UDP-glucuronyltransferase-like protein [Arabidopsis thaliana]		

Seq. No.	45336	Seq. ID	OJ000251_33.0331.C33
Gene No.	95847	Strand	-
Start	6860	End	14094
Name	OJ000251_33.0331.C33.o2.np	Method	AAT/NAP
Start	6116	End	6273
GI	5852172	Score	72
Exons	6116..6273		
GI Descrip.	(AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	45336	Seq. ID	OJ000251_33.0331.C33
Gene No.	95847	Strand	-
Start	6860	End	14094
Name	OJ000251_33.0331.C33.o2.gs	Method	GENSCAN
Start	6860	End	8891
GI	none	Score	.6
Exons	6860..7048, 7441..7470, 8200..8274, 8883..8891		

Seq. No.	45336	Seq. ID	OJ000251_33.0331.C33
Gene No.	95847	Strand	-
Start	6860	End	14094
Name	OJ000251_33.0331.C33.o3.np	Method	AAT/NAP
Start	8546	End	14094
GI	4914319	Score	173
Exons	8546..8658, 12080..12345, 14070..14094		
GI Descrip.	(AC005489) F14N23.5 [Arabidopsis thaliana]		

Seq. No.	45336	Seq. ID	OJ000251_33.0331.C33
Gene No.	95847	Strand	-
Start	6860	End	14094
Name	OJ000251_33.0331.C33.o1.tm	Method	TBLASTX:Maize
Start	12536	End	12695
GI	none	Score	162
Exons	12536..12685, 12540..12695, 12545..12694		

Seq. No.	45337	Seq. ID	OJ000251_33.0331.C34
Gene No.	95848	Strand	+
Start	4188	End	8030
Name	OJ000251_33.0331.C34.o2.gs	Method	GENSCAN
Start	4188	End	8030
GI	none	Score	.85
Exons	4188..4265, 4465..4615, 5149..5235, 5586..5727, 6081..6247, 6300..6494, 7060..7254, 7465..7608, 7879..8030		

Seq. No.	45337	Seq. ID	OJ000251_33.0331.C34
Gene No.	95849	Strand	+
Start	9916	End	10601
Name	OJ000251_33.0331.C34.o3.gs	Method	GENSCAN
Start	9916	End	10601
GI	none	Score	.87
Exons	9916..9926, 9977..10601		

Seq. No.	45337	Seq. ID	OJ000251_33.0331.C34
Gene No.	95850	Strand	-
Start	624	End	2042
Name	OJ000251_33.0331.C34.ol.np	Method	AAT/NAP
Start	624	End	2042
GI	7340868	Score	186
Exons	624..702, 1853..2042		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	45338	Seq. ID	OJ000251_33.0331.C35
Gene No.	95851	Strand	+
Start	396	End	2650
Name	OJ000251_33.0331.C35.ol.gp	Method	AAT/GAP
Start	396	End	1805
GI	15388 1.R1084	Score	1059
Exons	396..516, 991..1211, 1331..1460, 1606..1668, 1764..1805		
GI Descrip.	'2832628 emb CAA16757.1  2.0e-40 (AL021711) putative protein [Arabidopsis thaliana]'		

Seq. No.	45338	Seq. ID	OJ000251_33.0331.C35
Gene No.	95851	Strand	+
Start	396	End	2650
Name	OJ000251_33.0331.C35.ol.gs	Method	GENSCAN
Start	397	End	2625
GI	none	Score	.77
Exons	397..516, 991..1211, 1331..1460, 1943..2034, 2144..2206, 2294..2444, 2483..2516, 2555..2625		

Seq. No.	45338	Seq. ID	OJ000251_33.0331.C35
Gene No.	95851	Strand	+
Start	396	End	2650
Name	OJ000251_33.0331.C35.ol.np	Method	AAT/NAP
Start	995	End	2650
GI	7485421	Score	481
Exons	995..1211, 1331..1460, 1606..1668, 1764..1841, 1943..2034, 2147..2200, 2294..2438, 2564..2650		
GI Descrip.	hypothetical protein F13C5.170 - Arabidopsis thaliana gi 2832628 emb CAA16757.1  (AL021711) putative protein [Arabidopsis thaliana] gi 7268694 emb CAB78902.1  (AL161549) putative protein [Arabidopsis thaliana]		

Seq. No.	45338	Seq. ID	OJ000251_33.0331.C35
Gene No.	95851	Strand	+
Start	396	End	2650
Name	OJ000251_33.0331.C35.o2.gp	Method	AAT/GAP
Start	1935	End	2374
GI	2797946	Score	421
Exons	1935..2034, 2144..2206, 2294..2374		

Seq. No.	45338	Seq. ID	OJ000251_33.0331.C35
Gene No.	95852	Strand	-
Start	2657	End	3152
Name	OJ000251_33.0331.C35.o3.gp	Method	AAT/GAP
Start	2657	End	3152
GI	none	Score	870
Exons	2657..3152		

Seq. No.	45338	Seq. ID	OJ000251_33.0331.C35
Gene No.	95853	Strand	-
Start	3274	End	4395
Name	OJ000251_33.0331.C35.o1.tm	Method	TBLASTX:Maize
Start	389	End	2707
GI	none	Score	191
Exons	389..517, 394..516, 986..1057, 1017..1058, 1037..1207, 1057..1212, 1057..1215, 1130..1222, 1298..1459, 1314..1460, 1332..1460, 1333..1461, 1585..1671, 1603..1668, 1760..1840, 1761..1841, 1764..1841, 1936..2034, 1943..2035, 1943..2059, 1944..2036, 2126..2203, 2142..2207, 2275..2439, 2279..2443, 2288..2443, 2289..2447, 2295..2447, 2552..2653, 2553..2663, 2554..2664, 2595..2663, 2609..2707, 2620..2664		

Seq. No.	45338	Seq. ID	OJ000251_33.0331.C35
Gene No.	95853	Strand	-
Start	3274	End	4395
Name	OJ000251_33.0331.C35.o1.ts	Method	TBLASTX:Soybean
Start	394	End	2661
GI	none	Score	111
Exons	394..465, 987..1214, 1027..1212, 1298..1459, 1329..1460, 1357..1461, 1582..1671, 1622..1669, 1760..1840, 1764..1841, 1936..2034, 1943..2035, 2129..2203, 2142..2207, 2288..2443, 2289..2447, 2548..2661, 2549..2647		

Seq. No.	45338	Seq. ID	OJ000251_33.0331.C35
Gene No.	95853	Strand	-
Start	3274	End	4395
Name	OJ000251_33.0331.C35.o1.tw	Method	TBLASTX:Wheat
Start	2015	End	2663
GI	none	Score	37
Exons	2015..2035, 2143..2205, 2144..2206, 2145..2207, 2146..2208, 2263..2439, 2279..2443, 2288..2443, 2289..2447, 2304..2447, 2552..2662, 2553..2663		

Seq. No.	45338	Seq. ID	OJ000251_33.0331.C35
Gene No.	95853	Strand	-
Start	3274	End	4395
Name	OJ000251_33.0331.C35.o2.gs	Method	GENSCAN
Start	3274	End	4395



GI	none	Score	.81
Exons	3274..3379, 4346..4395		
Seq. No.	45339	Seq. ID	OJ000251_33.0331.C36
Gene No.	95854	Strand	+
Start	1	End	2638
Name	OJ000251_33.0331.C36.o1.np	Method	AAT/NAP
Start	1	End	1709
GI	7487872	Score	852
Exons	1..187, 242..335, 791..1034, 1178..1709		
GI Descrip.	hypothetical protein T9I4.13 - Arabidopsis thaliana gi 3461845 gb AAC33231.1  (AC005315) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45339	Seq. ID	OJ000251_33.0331.C36
Gene No.	95854	Strand	+
Start	1	End	2638
Name	OJ000251_33.0331.C36.o1.gs	Method	GENSCAN
Start	46	End	2638
GI	none	Score	.83
Exons	46..324, 871..1034, 1178..1341, 1783..1909, 2535..2638		

Seq. No.	45339	Seq. ID	OJ000251_33.0331.C36
Gene No.	95854	Strand	+
Start	1	End	2638
Name	OJ000251_33.0331.C36.o1.gp	Method	AAT/GAP
Start	137	End	1279
GI	uC-osflcyp014e10b1	Score	821
Exons	137..324, 871..1034, 1178..1279		
GI Descrip.	'4176420/dbj BAA37167  2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	45339	Seq. ID	OJ000251_33.0331.C36
Gene No.	95855	Strand	-
Start	3260	End	4925
Name	OJ000251_33.0331.C36.o3.tm	Method	TBLASTX:Maize
Start	154	End	325
GI	none	Score	259
Exons	154..324, 155..325		

Seq. No.	45339	Seq. ID	OJ000251_33.0331.C36
Gene No.	95855	Strand	-
Start	3260	End	4925
Name	OJ000251_33.0331.C36.o2.ts	Method	TBLASTX:Soybean
Start	155	End	1659
GI	none	Score	44
Exons	155..178, 239..325, 241..324, 872..1039, 880..1038, 905..1045, 1177..1371, 1179..1340, 1431..1568, 1450..1611, 1486..1509, 1503..1568, 1621..1659		

Seq. No.	45339	Seq. ID	OJ000251_33.0331.C36
Gene No.	95855	Strand	-
Start	3260	End	4925
Name	OJ000251_33.0331.C36.o1.tc	Method	TBLASTX:Cress
Start	158	End	1571
GI	none	Score	39
Exons	158..178, 263..325, 872..1033, 872..1033, 1177..1341,		

1179..1340, 1248..1355, 1428..1517, 1464..1517, 1515..1571

Seq. No.	45339	Seq. ID	OJ000251_33.0331.C36
Gene No.	95855	Strand	-
Start	3260	End	4925
Name	OJ000251_33.0331.C36.o4.tm	Method	TBLASTX:Maize
Start	862	End	1891
GI	none	Score	66
Exons	862..1029, 868..1029, 872..1033, 1747..1890, 1799..1891		

Seq. No.	45339	Seq. ID	OJ000251_33.0331.C36
Gene No.	95855	Strand	-
Start	3260	End	4925
Name	OJ000251_33.0331.C36.o1.tm	Method	TBLASTX:Maize
Start	1194	End	1673
GI	none	Score	173
Exons	1194..1337, 1194..1340, 1195..1341, 1421..1648, 1425..1667, 1425..1673		

Seq. No.	45339	Seq. ID	OJ000251_33.0331.C36
Gene No.	95855	Strand	-
Start	3260	End	4925
Name	OJ000251_33.0331.C36.o2.gs	Method	GENSCAN
Start	3260	End	4925
GI	none	Score	.88
Exons	3260..3493, 3925..4203, 4278..4399, 4542..4617, 4749..4925		

Seq. No.	45339	Seq. ID	OJ000251_33.0331.C36
Gene No.	95855	Strand	-
Start	3260	End	4925
Name	OJ000251_33.0331.C36.o2.np	Method	AAT/NAP
Start	3269	End	4203
GI	6650526	Score	290
Exons	3269..3483, 3599..3784, 3892..4203		
GI Descrip.	(AF101045) putative transcription factor X1 [Oryza sativa subsp. japonica]		

Seq. No.	45339	Seq. ID	OJ000251_33.0331.C36
Gene No.	95855	Strand	-
Start	3260	End	4925
Name	OJ000251_33.0331.C36.o2.tm	Method	TBLASTX:Maize
Start	3272	End	4077
GI	none	Score	156
Exons	3272..3490, 3306..3485, 3390..3494, 3391..3507, 3558..3704, 3606..3698, 3695..3790, 3707..3787, 3925..4077		

Seq. No.	45339	Seq. ID	OJ000251_33.0331.C36
Gene No.	95855	Strand	-
Start	3260	End	4925
Name	OJ000251_33.0331.C36.o2.tc	Method	TBLASTX:Cress
Start	3287	End	3502
GI	none	Score	71
Exons	3287..3490, 3360..3491, 3371..3502		

Seq. No.	45339	Seq. ID	OJ000251_33.0331.C36
Gene No.	95855	Strand	-
Start	3260	End	4925

Name	OJ000251_33.0331.C36.o1.ts	Method	TBLASTX:Soybean
Start	3341	End	3784
GI	none	Score	72
Exons	3341..3490, 3345..3482, 3601..3699, 3606..3734, 3606..3698, 3707..3784		

Seq. No.	45340	Seq. ID	OJ000251_33.0331.C38
Gene No.	95856	Strand	-
Start	182	End	425
Name	OJ000251_33.0331.C38.o1.gs	Method	GENSCAN
Start	182	End	425
GI	none	Score	.99
Exons	182..425		

Seq. No.	45341	Seq. ID	OJ000251_33.0331.C40
Gene No.	95857	Strand	+
Start	443	End	622
Name	OJ000251_33.0331.C40.o1.gs	Method	GENSCAN
Start	443	End	622
GI	none	Score	.47
Exons	443..622		

Seq. No.	45342	Seq. ID	OJ000251_33.0331.C44
Gene No.	95858	Strand	-
Start	236	End	626
Name	OJ000251_33.0331.C44.o1.gs	Method	GENSCAN
Start	236	End	626
GI	none	Score	.97
Exons	236..351, 578..626		

Seq. No.	45343	Seq. ID	OJ000251_33.0331.C45
Gene No.	95859	Strand	+
Start	636	End	1132
Name	OJ000251_33.0331.C45.o1.gs	Method	GENSCAN
Start	636	End	1132
GI	none	Score	.99
Exons	636..860, 945..1132		

Seq. No.	45344	Seq. ID	OJ000251_33.0331.C46
Gene No.	95860	Strand	+
Start	1496	End	1653
Name	OJ000251_33.0331.C46.o1.gs	Method	GENSCAN
Start	1496	End	1653
GI	none	Score	.4
Exons	1496..1653		

Seq. No.	45345	Seq. ID	OJ000251_33.0331.C47
Gene No.	95861	Strand	-
Start	2597	End	4557
Name	OJ000251_33.0331.C47.o1.gs	Method	GENSCAN
Start	2597	End	4557
GI	none	Score	.65
Exons	2597..2851, 4435..4557		

Seq. No.	45346	Seq. ID	OJ000251_33.0331.C48
Gene No.	95862	Strand	+
Start	457	End	8262

Name	OJ000251_33.0331.C48.o1.gs	Method	GENSCAN
Start	457	End	6600
GI	none	Score	.75
Exons	457..466, 2967..3104, 3223..3456, 3559..3697, 5155..5369, 5847..5989, 6535..6600		

Seq. No.	45346	Seq. ID	OJ000251_33.0331.C48
Gene No.	95862	Strand	+
Start	457	End	8262
Name	OJ000251_33.0331.C48.o2.gp	Method	AAT/GAP
Start	2903	End	7988
GI	6891_1.R1084	Score	2410
Exons	2903..3104, 3223..3456, 3559..3652, 5155..5369, 5847..5989, 7612..7988		
GI Descrip.	'1769887/emb CAA65051  1.0e-151 (X95736) amino acid permease 6 [Arabidopsis thaliana]'		

Seq. No.	45346	Seq. ID	OJ000251_33.0331.C48
Gene No.	95862	Strand	+
Start	457	End	8262
Name	OJ000251_33.0331.C48.o1.np	Method	AAT/NAP
Start	2999	End	8262
GI	1769887	Score	1547
Exons	2999..3104, 3223..3456, 3559..3652, 5155..5371, 5846..5989, 7612..8262		
GI Descrip.	(X95736) amino acid permease 6 [Arabidopsis thaliana]		

Seq. No.	45346	Seq. ID	OJ000251_33.0331.C48
Gene No.	95863	Strand	-
Start	7534	End	8430
Name	OJ000251_33.0331.C48.o1.tc	Method	TBLASTX:Cress
Start	3071	End	8253
GI	none	Score	57
Exons	3071..3121, 3212..3457, 3222..3458, 3315..3512, 3558..3650, 5116..5370, 5156..5371, 5840..5989, 5845..5985, 5896..5997, 7629..7919, 7630..7938, 7947..8225, 7948..8253		

Seq. No.	45346	Seq. ID	OJ000251_33.0331.C48
Gene No.	95863	Strand	-
Start	7534	End	8430
Name	OJ000251_33.0331.C48.o1.ts	Method	TBLASTX:Soybean
Start	3071	End	8274
GI	none	Score	46
Exons	3071..3106, 3212..3457, 3222..3458, 3558..3650, 5104..5421, 5156..5371, 5840..5989, 5845..5985, 7591..7941, 7608..7940, 7947..8111, 7948..8274, 8133..8222		

Seq. No.	45346	Seq. ID	OJ000251_33.0331.C48
Gene No.	95863	Strand	-
Start	7534	End	8430
Name	OJ000251_33.0331.C48.o2.tm	Method	TBLASTX:Maize
Start	3221	End	3650
GI	none	Score	304
Exons	3221..3454, 3222..3455, 3264..3458, 3567..3650, 3574..3648, 3576..3650		

Seq. No.	45346	Seq. ID	OJ000251_33.0331.C48
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Gene No.	95863	Strand	-
Start	7534	End	8430
Name	OJ000251_33.0331.C48.o1.tm	Method	TBLASTX:Maize
Start	5290	End	8228
GI	none	Score	82
Exons	5290..5373, 5291..5362, 5909..5989, 5909..5989, 7594..7917, 7608..7916, 7960..8226, 8022..8228		

Seq. No.	45346	Seq. ID	OJ000251_33.0331.C48
Gene No.	95863	Strand	-
Start	7534	End	8430
Name	OJ000251_33.0331.C48.o2.gs	Method	GENSCAN
Start	7534	End	8241
GI	none	Score	.99
Exons	7534..8241		

Seq. No.	45346	Seq. ID	OJ000251_33.0331.C48
Gene No.	95863	Strand	-
Start	7534	End	8430
Name	OJ000251_33.0331.C48.o1.tw	Method	TBLASTX:Wheat
Start	7753	End	8139
GI	none	Score	238
Exons	7753..7911, 7755..7910, 7945..8139, 8019..8114		

Seq. No.	45346	Seq. ID	OJ000251_33.0331.C48
Gene No.	95863	Strand	-
Start	7534	End	8430
Name	OJ000251_33.0331.C48.o3.gp	Method	AAT/GAP
Start	7990	End	8430
GI	LIB3431-018-P1-KI-B5	Score	419
Exons	7990..8052, 8215..8430		
GI Descrip.	'5922603/dbj AP000492.1 AP000492 4.0e-57 Oryza sativa genomic DNA, chromosome 1, clone:P0705D01'		

Seq. No.	45347	Seq. ID	OJ000251_33.0331.C49
Gene No.	95864	Strand	-
Start	1	End	1756
Name	OJ000251_33.0331.C49.o1.np	Method	AAT/NAP
Start	1	End	1756
GI	6069652	Score	72
Exons	1..24, 1578..1756		
GI Descrip.	(AP000616) similar to MADS-box protein AGL14 (U20184) [Oryza sativa]		

Seq. No.	45347	Seq. ID	OJ000251_33.0331.C49
Gene No.	95864	Strand	-
Start	1	End	1756
Name	OJ000251_33.0331.C49.o1.gs	Method	GENSCAN
Start	532	End	1557
GI	none	Score	.45
Exons	532..1557		

Seq. No.	45347	Seq. ID	OJ000251_33.0331.C49
Gene No.	95865	Strand	-
Start	3571	End	4981
Name	OJ000251_33.0331.C49.o2.gs	Method	GENSCAN
Start	3571	End	4981

GI	none	Score	.5
Exons	3571..3787, 4437..4569, 4819..4981		
Seq. No.	45348	Seq. ID	OJ000251_33.0331.C50
Gene No.	95866	Strand	+
Start	7975	End	9899
Name	OJ000251_33.0331.C50.o2.gs	Method	GENSCAN
Start	7975	End	9899
GI	none	Score	.67
Exons	7975..8012, 8281..9247, 9367..9780, 9786..9899		

Seq. No.	45348	Seq. ID	OJ000251_33.0331.C50
Gene No.	95866	Strand	+
Start	7975	End	9899
Name	OJ000251_33.0331.C50.o3.gp	Method	AAT/GAP
Start	8251	End	8777
GI	uC-osroM202035e04b1	Score	1010
Exons	8251..8777		
GI Descrip.	'3540181 6.0e-21 (AC004122) Unknown protein [Arabidopsis thaliana]'		

Seq. No.	45348	Seq. ID	OJ000251_33.0331.C50
Gene No.	95866	Strand	+
Start	7975	End	9899
Name	OJ000251_33.0331.C50.o2.np	Method	AAT/NAP
Start	8313	End	9772
GI	7487490	Score	1168
Exons	8313..9017, 9098..9772		
GI Descrip.	hypothetical protein T27I1.4 - Arabidopsis thaliana gi 3540181 gb AAC34331.1  (AC004122) Unknown protein [Arabidopsis thaliana]		

Seq. No.	45348	Seq. ID	OJ000251_33.0331.C50
Gene No.	95867	Strand	+
Start	12285	End	12340
Name	OJ000251_33.0331.C50.o5.gp	Method	AAT/GAP
Start	12285	End	12340
GI	3759960	Score	59
Exons	12285..12340		

Seq. No.	45348	Seq. ID	OJ000251_33.0331.C50
Gene No.	95868	Strand	-
Start	331	End	769
Name	OJ000251_33.0331.C50.o1.gp	Method	AAT/GAP
Start	331	End	769
GI	4714617	Score	818
Exons	331..769		
GI Descrip.	5922603/dbj AP000492.1 AP000492 4.0e-57 Oryza sativa genomic DNA, chromosome 1, clone:P0705D01		

Seq. No.	45348	Seq. ID	OJ000251_33.0331.C50
Gene No.	95869	Strand	-
Start	949	End	3388
Name	OJ000251_33.0331.C50.o1.gs	Method	GENSCAN
Start	949	End	3272
GI	none	Score	.88
Exons	949..1047, 1136..1211, 1322..1377, 1809..1952, 2034..2084,		

2192..2277, 2398..2496, 3152..3272

Seq. No.	45348	Seq. ID	OJ000251_33.0331.C50
Gene No.	95869	Strand	-
Start	949	End	3388
Name	OJ000251_33.0331.C50.o1.np	Method	AAT/NAP
Start	955	End	2483
GI	7543908	Score	559
Exons	955..1047, 1136..1211, 1322..1377, 1612..1656, 1809..1889, 2034..2084, 2192..2277, 2380..2483		
GI Descrip.	(AL163572) putative protein [Arabidopsis thaliana]		

Seq. No.	45348	Seq. ID	OJ000251_33.0331.C50
Gene No.	95869	Strand	-
Start	949	End	3388
Name	OJ000251_33.0331.C50.o2.gp	Method	AAT/GAP
Start	2190	End	3388
GI	4714616	Score	748
Exons	2190..2277, 2398..2496, 3152..3388		

Seq. No.	45348	Seq. ID	OJ000251_33.0331.C50
Gene No.	95870	Strand	-
Start	10135	End	10595
Name	OJ000251_33.0331.C50.o2.tm	Method	TBLASTX:Maize
Start	2059	End	2498
GI	none	Score	41
Exons	2059..2085, 2061..2084, 2190..2276, 2192..2278, 2397..2435, 2399..2437, 2432..2497, 2433..2498		

Seq. No.	45348	Seq. ID	OJ000251_33.0331.C50
Gene No.	95870	Strand	-
Start	10135	End	10595
Name	OJ000251_33.0331.C50.o2.ts	Method	TBLASTX:Soybean
Start	8304	End	8974
GI	none	Score	81
Exons	8304..8378, 8310..8366, 8412..8465, 8553..8594, 8700..8801, 8702..8779, 8825..8974, 8835..8972		

Seq. No.	45348	Seq. ID	OJ000251_33.0331.C50
Gene No.	95870	Strand	-
Start	10135	End	10595
Name	OJ000251_33.0331.C50.o1.tc	Method	TBLASTX:Cress
Start	8876	End	9346
GI	none	Score	115
Exons	8876..8983, 8877..8981, 9041..9112, 9131..9313, 9145..9288, 9299..9346		

Seq. No.	45348	Seq. ID	OJ000251_33.0331.C50
Gene No.	95870	Strand	-
Start	10135	End	10595
Name	OJ000251_33.0331.C50.o1.ts	Method	TBLASTX:Soybean
Start	9091	End	9484
GI	none	Score	394
Exons	9091..9309, 9092..9361, 9242..9313, 9409..9483, 9419..9484		

Seq. No.	45348	Seq. ID	OJ000251_33.0331.C50
Gene No.	95870	Strand	-

Start	10135	End	10595
Name	OJ000251_33.0331.C50.o1.tm	Method	TBLASTX:Maize
Start	9293	End	9598
GI	none	Score	91
Exons	9293..9358, 9347..9397, 9388..9597, 9422..9598		

Seq. No.	45348	Seq. ID	OJ000251_33.0331.C50
Gene No.	95870	Strand	-
Start	10135	End	10595
Name	OJ000251_33.0331.C50.o3.tm	Method	TBLASTX:Maize
Start	9599	End	9790
GI	none	Score	184
Exons	9599..9790, 9599..9784		

Seq. No.	45348	Seq. ID	OJ000251_33.0331.C50
Gene No.	95870	Strand	-
Start	10135	End	10595
Name	OJ000251_33.0331.C50.o3.gs	Method	GENSCAN
Start	10135	End	10595
GI	none	Score	.41
Exons	10135..10203, 10239..10595		

Seq. No.	45349	Seq. ID	OJ000251_33.0331.C51
Gene No.	95871	Strand	+
Start	581	End	1636
Name	OJ000251_33.0331.C51.o1.gs	Method	GENSCAN
Start	581	End	1636
GI	none	Score	.61
Exons	581..767, 1493..1636		

Seq. No.	45350	Seq. ID	OJ000251_33.0331.C52
Gene No.	95872	Strand	-
Start	167	End	659
Name	OJ000251_33.0331.C52.o1.gs	Method	GENSCAN
Start	167	End	659
GI	none	Score	.7
Exons	167..387, 606..659		

Seq. No.	45351	Seq. ID	OJ000251_33.0331.C53
Gene No.	95873	Strand	+
Start	302	End	3868
Name	OJ000251_33.0331.C53.o1.np	Method	AAT/NAP
Start	302	End	3868
GI	4028547	Score	88
Exons	302..474, 3849..3868		
GI Descrip.	(AF093689) MEK kinase alpha [Dictyostelium discoideum]		

Seq. No.	45351	Seq. ID	OJ000251_33.0331.C53
Gene No.	95874	Strand	-
Start	126	End	3047
Name	OJ000251_33.0331.C53.o1.gs	Method	GENSCAN
Start	126	End	3047
GI	none	Score	.51
Exons	126..365, 2245..2400, 2673..2801, 2946..3047		

Seq. No.	45351	Seq. ID	OJ000251_33.0331.C53
Gene No.	95874	Strand	-



Start	126	End	3047
Name	OJ000251_33.0331.C53.o1.gp	Method	AAT/GAP
Start	249	End	507
GI	5867_1.R1084	Score	139
Exons	249..270, 418..507		
GI Descrip.	'464986/sp P35132 UBC9_ARATH 5.0e-58 UBIQUITIN-CONJUGATING ENZYME E2-17 KD 9 (UBIQUITIN-PROTEIN LIGASE 9) (UBIQUITIN CARRIER PROTEIN 9) (UBCAT4B) >gi_421857_pir_S32674 ubiquitin--protein ligase (EC 6.3.2.19) UBC9 - Arabidopsis thaliana >gi_297884_emb_CAA78714 (Z14990) ubiquitin conjugating enzyme homolog [Arabidopsis thaliana] >gi_349211 (L00639) ubiquitin conjugating enzyme [Arabidopsis]		

Seq. No.	45351	Seq. ID	OJ000251_33.0331.C53
Gene No.	95875	Strand	-
Start	5152	End	7191
Name	OJ000251_33.0331.C53.o2.gs	Method	GENSCAN
Start	5152	End	7191
GI	none	Score	.84
Exons	5152..7191		

Seq. No.	45351	Seq. ID	OJ000251_33.0331.C53
Gene No.	95876	Strand	-
Start	8476	End	8852
Name	OJ000251_33.0331.C53.o3.gs	Method	GENSCAN
Start	8476	End	8852
GI	none	Score	.83
Exons	8476..8605, 8779..8852		

Seq. No.	45351	Seq. ID	OJ000251_33.0331.C53
Gene No.	95877	Strand	-
Start	9121	End	17815
Name	OJ000251_33.0331.C53.o5.tm	Method	TBLASTX:Maize
Start	5149	End	15791
GI	none	Score	49
Exons	5149..5187, 5150..5182, 5222..5335, 5236..5373, 5239..5373, 5407..5469, 15417..15497, 15501..15752, 15501..15677, 15515..15790, 15515..15790, 15744..15791		

Seq. No.	45351	Seq. ID	OJ000251_33.0331.C53
Gene No.	95877	Strand	-
Start	9121	End	17815
Name	OJ000251_33.0331.C53.o1.tc	Method	TBLASTX:Cress
Start	5246	End	17378
GI	none	Score	65
Exons	5246..5326, 5248..5385, 5494..5853, 5495..5821, 5848..6057, 5852..5881, 5966..6034, 6379..6420, 6520..6648, 6685..6753, 6820..6966, 7036..7116, 15432..15455, 15554..15790, 15567..15677, 15770..16132, 15810..16097, 16151..16345, 16155..16340, 16342..16635, 16358..16495, 16614..16913, 16615..16896, 16917..17213, 16948..17214, 17205..17378, 17314..17364		

Seq. No.	45351	Seq. ID	OJ000251_33.0331.C53
Gene No.	95877	Strand	-
Start	9121	End	17815
Name	OJ000251_33.0331.C53.o3.ts	Method	TBLASTX:Soybean

Start	5266	End	15901
GI	none	Score	67
Exons	5266..5385, 5407..5589, 5495..5587, 15590..15901, 15591..15866		

Seq. No.	45351	Seq. ID	OJ000251_33.0331.C53
Gene No.	95877	Strand	-
Start	9121	End	17815
Name	OJ000251_33.0331.C53.o1.tm	Method	TBLASTX:Maize
Start	5486	End	16375
GI	none	Score	291
Exons	5486..5821, 5494..5820, 5848..6057, 5852..5881, 5975..6046, 15800..16126, 15801..16001, 15802..16125, 15803..16132, 15810..16133, 16130..16345, 16131..16346, 16342..16371, 16355..16375		

Seq. No.	45351	Seq. ID	OJ000251_33.0331.C53
Gene No.	95877	Strand	-
Start	9121	End	17815
Name	OJ000251_33.0331.C53.o2.tw	Method	TBLASTX:Wheat
Start	5584	End	16282
GI	none	Score	254
Exons	5584..5652, 5620..5817, 5851..5979, 15896..15952, 15932..16282		

Seq. No.	45351	Seq. ID	OJ000251_33.0331.C53
Gene No.	95877	Strand	-
Start	9121	End	17815
Name	OJ000251_33.0331.C53.o1.ts	Method	TBLASTX:Soybean
Start	5605	End	16426
GI	none	Score	83
Exons	5605..5853, 5606..5824, 5845..6054, 5846..5881, 15917..16138, 15917..16138, 16154..16339, 16155..16349, 16343..16426, 16345..16425		

Seq. No.	45351	Seq. ID	OJ000251_33.0331.C53
Gene No.	95877	Strand	-
Start	9121	End	17815
Name	OJ000251_33.0331.C53.o4.tm	Method	TBLASTX:Maize
Start	6367	End	16910
GI	none	Score	36
Exons	6367..6402, 6368..6400, 6430..6459, 6494..6637, 6520..6657, 6655..6750, 6668..6745, 16614..16910, 16615..16908		

Seq. No.	45351	Seq. ID	OJ000251_33.0331.C53
Gene No.	95877	Strand	-
Start	9121	End	17815
Name	OJ000251_33.0331.C53.o3.tw	Method	TBLASTX:Wheat
Start	6503	End	17003
GI	none	Score	54
Exons	6503..6667, 6503..6613, 6511..6660, 6649..6750, 16758..16925, 16914..17003, 16948..17001		

Seq. No.	45351	Seq. ID	OJ000251_33.0331.C53
Gene No.	95877	Strand	-
Start	9121	End	17815
Name	OJ000251_33.0331.C53.o2.ts	Method	TBLASTX:Soybean
Start	6559	End	17399
GI	none	Score	103

Exons 6559..6657, 6670..6744, 7027..7104, 16812..17105, 16951..17100, 17106..17207, 17262..17399, 17275..17397

Seq. No.	45351	Seq. ID	OJ000251_33.0331.C53
Gene No.	95877	Strand	-
Start	9121	End	17815
Name	OJ000251_33.0331.C53.o3.tm	Method	TBLASTX:Maize
Start	7027	End	17429
GI	none	Score	142
Exons	7027..7095, 16917..17213, 16969..17208, 17256..17429, 17264..17329, 17278..17394		

Seq. No.	45351	Seq. ID	OJ000251_33.0331.C53
Gene No.	95877	Strand	-
Start	9121	End	17815
Name	OJ000251_33.0331.C53.o4.gs	Method	GENSCAN
Start	9121	End	17815
GI	none	Score	.51
Exons	9121..9230, 9923..10214, 11086..11756, 13451..13742, 14300..14430, 14740..14888, 15441..15831, 15883..16253, 16588..17533, 17707..17815		

Seq. No.	45351	Seq. ID	OJ000251_33.0331.C53
Gene No.	95877	Strand	-
Start	9121	End	17815
Name	OJ000251_33.0331.C53.o4.tw	Method	TBLASTX:Wheat
Start	11890	End	12222
GI	none	Score	54
Exons	11890..12021, 11897..11998, 12028..12222, 12040..12216		

Seq. No.	45351	Seq. ID	OJ000251_33.0331.C53
Gene No.	95877	Strand	-
Start	9121	End	17815
Name	OJ000251_33.0331.C53.o2.tm	Method	TBLASTX:Maize
Start	11980	End	12900
GI	none	Score	94
Exons	11980..12420, 12446..12652, 12460..12900		

Seq. No.	45351	Seq. ID	OJ000251_33.0331.C53
Gene No.	95877	Strand	-
Start	9121	End	17815
Name	OJ000251_33.0331.C53.o2.np	Method	AAT/NAP
Start	15433	End	17483
GI	7446441	Score	1717
Exons	15433..17222, 17256..17483		
GI Descrip.	probable serine/threonine-specific protein kinase F13M22.21 (EC 2.7.1.-) - Arabidopsis thaliana gi 3236253 gb AAC23641.1  (AC004684) putative receptor-like protein kinase [Arabidopsis thaliana]		

Seq. No.	45351	Seq. ID	OJ000251_33.0331.C53
Gene No.	95877	Strand	-
Start	9121	End	17815
Name	OJ000251_33.0331.C53.o1.tw	Method	TBLASTX:Wheat
Start	16426	End	16758
GI	none	Score	46
Exons	16426..16470, 16427..16489, 16474..16635, 16475..16594,		

16614..16751, 16624..16758

Seq. No.	45352	Seq. ID	OJ000251_33.0331.C55
Gene No.	95878	Strand	+
Start	1	End	6602
Name	OJ000251_33.0331.C55.o1.np	Method	AAT/NAP
Start	1	End	2139
GI	7340881	Score	155
Exons	1..211, 317..356, 2076..2139		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	45352	Seq. ID	OJ000251_33.0331.C55
Gene No.	95878	Strand	+
Start	1	End	6602
Name	OJ000251_33.0331.C55.o1.gs	Method	GENSCAN
Start	843	End	1787
GI	none	Score	.71
Exons	843..1787		

Seq. No.	45352	Seq. ID	OJ000251_33.0331.C55
Gene No.	95878	Strand	+
Start	1	End	6602
Name	OJ000251_33.0331.C55.o2.np	Method	AAT/NAP
Start	909	End	1784
GI	5042448	Score	1325
Exons	909..1784		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	45352	Seq. ID	OJ000251_33.0331.C55
Gene No.	95878	Strand	+
Start	1	End	6602
Name	OJ000251_33.0331.C55.o2.gs	Method	GENSCAN
Start	2037	End	4835
GI	none	Score	.79
Exons	2037..2561, 2700..2997, 3034..3234; 3907..4040, 4080..4835		

Seq. No.	45352	Seq. ID	OJ000251_33.0331.C55
Gene No.	95878	Strand	+
Start	1	End	6602
Name	OJ000251_33.0331.C55.o3.np	Method	AAT/NAP
Start	2037	End	6599
GI	4680179	Score	7519
Exons	2037..6599		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	45352	Seq. ID	OJ000251_33.0331.C55
Gene No.	95878	Strand	+
Start	1	End	6602
Name	OJ000251_33.0331.C55.o3.gs	Method	GENSCAN
Start	4962	End	6602
GI	none	Score	.93
Exons	4962..5606, 5808..6602		

Seq. No.	45352	Seq. ID	OJ000251_33.0331.C55
Gene No.	95879	Strand	+
Start	7140	End	12356

Name	OJ000251_33.0331.C55.o4.gs	Method	GENSCAN
Start	7140	End	9533
GI	none	Score	.62
Exons	7140..7283, 7408..7553, 7646..7737, 7782..8131, 8317..8404, 9493..9533		

Seq. No.	45352	Seq. ID	OJ000251_33.0331.C55
Gene No.	95879	Strand	+
Start	7140	End	12356
Name	OJ000251_33.0331.C55.o4.np	Method	AAT/NAP
Start	7197	End	12356
GI	7340881	Score	780
Exons	7197..7283, 7430..7553, 7646..7737, 7794..8071, 9501..9634, 9740..9794, 10156..10326, 12337..12356		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	45352	Seq. ID	OJ000251_33.0331.C55
Gene No.	95880	Strand	-
Start	1	End	19477
Name	OJ000251_33.0331.C55.o5.np	Method	AAT/NAP
Start	1	End	19477
GI	2865431	Score	22
Exons	1..34, 10941..11126, 11788..11834, 16934..17204, 19445..19477		
GI Descrip.	(AF039373) polyprotein [Arabidopsis thaliana]		

Seq. No.	45352	Seq. ID	OJ000251_33.0331.C55
Gene No.	95880	Strand	-
Start	1	End	19477
Name	OJ000251_33.0331.C55.o7.tw	Method	TBLASTX:Wheat
Start	2287	End	2663
GI	none	Score	56
Exons	2287..2403, 2303..2404, 2304..2663, 2429..2662		

Seq. No.	45352	Seq. ID	OJ000251_33.0331.C55
Gene No.	95880	Strand	-
Start	1	End	19477
Name	OJ000251_33.0331.C55.o7.tm	Method	TBLASTX:Maize
Start	2544	End	16935
GI	none	Score	201
Exons	2544..2840, 2544..2828, 16723..16791, 16828..16935		

Seq. No.	45352	Seq. ID	OJ000251_33.0331.C55
Gene No.	95880	Strand	-
Start	1	End	19477
Name	OJ000251_33.0331.C55.o8.tw	Method	TBLASTX:Wheat
Start	3183	End	3599
GI	none	Score	149
Exons	3183..3392, 3233..3331, 3438..3599, 3443..3598		

Seq. No.	45352	Seq. ID	OJ000251_33.0331.C55
Gene No.	95880	Strand	-
Start	1	End	19477
Name	OJ000251_33.0331.C55.o4.tw	Method	TBLASTX:Wheat
Start	3759	End	4244
GI	none	Score	511
Exons	3759..4244, 3872..4201, 3873..4241		

Seq. No.	45352	Seq. ID	OJ000251_33.0331.C55
Gene No.	95880	Strand	-
Start	1	End	19477
Name	OJ000251_33.0331.C55.o5.tm	Method	TBLASTX:Maize
Start	3774	End	4063
GI	none	Score	287
Exons	3774..4061, 3872..4063		

Seq. No.	45352	Seq. ID	OJ000251_33.0331.C55
Gene No.	95880	Strand	-
Start	1	End	19477
Name	OJ000251_33.0331.C55.o3.tm	Method	TBLASTX:Maize
Start	4131	End	4631
GI	none	Score	161
Exons	4131..4310, 4296..4631, 4382..4513, 4383..4625		

Seq. No.	45352	Seq. ID	OJ000251_33.0331.C55
Gene No.	95880	Strand	-
Start	1	End	19477
Name	OJ000251_33.0331.C55.o1.ts	Method	TBLASTX:Soybean
Start	4185	End	4580
GI	none	Score	57
Exons	4185..4217, 4185..4229, 4221..4580, 4316..4579		

Seq. No.	45352	Seq. ID	OJ000251_33.0331.C55
Gene No.	95880	Strand	-
Start	1	End	19477
Name	OJ000251_33.0331.C55.o5.tw	Method	TBLASTX:Wheat
Start	4293	End	4595
GI	none	Score	402
Exons	4293..4595, 4294..4395, 4313..4594		

Seq. No.	45352	Seq. ID	OJ000251_33.0331.C55
Gene No.	95880	Strand	-
Start	1	End	19477
Name	OJ000251_33.0331.C55.o2.tw	Method	TBLASTX:Wheat
Start	4596	End	5105
GI	none	Score	585
Exons	4596..5105, 4628..4939, 4674..5021		

Seq. No.	45352	Seq. ID	OJ000251_33.0331.C55
Gene No.	95880	Strand	-
Start	1	End	19477
Name	OJ000251_33.0331.C55.o2.tm	Method	TBLASTX:Maize
Start	4668	End	5033
GI	none	Score	450
Exons	4668..5021, 4670..4936, 4722..5033, 4736..5026		

Seq. No.	45352	Seq. ID	OJ000251_33.0331.C55
Gene No.	95880	Strand	-
Start	1	End	19477
Name	OJ000251_33.0331.C55.o3.tw	Method	TBLASTX:Wheat
Start	5106	End	5588
GI	none	Score	569
Exons	5106..5588, 5154..5555, 5333..5587		

Seq. No.	45352	Seq. ID	OJ000251_33.0331.C55
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Gene No.	95880	Strand	-
Start	1	End	19477
Name	OJ000251_33.0331.C55.o2.ts	Method	TBLASTX:Soybean
Start	5376	End	5636
GI	none	Score	300
Exons	5376..5636, 5381..5635		
Seq. No.	45352	Seq. ID	OJ000251_33.0331.C55
Gene No.	95880	Strand	-
Start	1	End	19477
Name	OJ000251_33.0331.C55.o4.tm	Method	TBLASTX:Maize
Start	5435	End	5726
GI	none	Score	385
Exons	5435..5722, 5436..5726		
Seq. No.	45352	Seq. ID	OJ000251_33.0331.C55
Gene No.	95880	Strand	-
Start	1	End	19477
Name	OJ000251_33.0331.C55.o1.tw	Method	TBLASTX:Wheat
Start	5595	End	6221
GI	none	Score	700
Exons	5595..6221, 5597..6220		
Seq. No.	45352	Seq. ID	OJ000251_33.0331.C55
Gene No.	95880	Strand	-
Start	1	End	19477
Name	OJ000251_33.0331.C55.o1.tm	Method	TBLASTX:Maize
Start	5775	End	6362
GI	none	Score	203
Exons	5775..5936, 5783..5929, 5934..6362, 5936..6361		
Seq. No.	45352	Seq. ID	OJ000251_33.0331.C55
Gene No.	95880	Strand	-
Start	1	End	19477
Name	OJ000251_33.0331.C55.o6.tw	Method	TBLASTX:Wheat
Start	6222	End	6554
GI	none	Score	356
Exons	6222..6554, 6249..6329, 6314..6553		
Seq. No.	45352	Seq. ID	OJ000251_33.0331.C55
Gene No.	95880	Strand	-
Start	1	End	19477
Name	OJ000251_33.0331.C55.o6.tm	Method	TBLASTX:Maize
Start	6362	End	6607
GI	none	Score	205
Exons	6362..6433, 6363..6575, 6503..6574, 6551..6607		
Seq. No.	45352	Seq. ID	OJ000251_33.0331.C55
Gene No.	95880	Strand	-
Start	1	End	19477
Name	OJ000251_33.0331.C55.o5.gs	Method	GENSCAN
Start	11034	End	12079
GI	none	Score	.64
Exons	11034..11302, 11407..11532, 11688..11772, 12065..12079		
Seq. No.	45352	Seq. ID	OJ000251_33.0331.C55
Gene No.	95880	Strand	-

Start	1	End	19477
Name	OJ000251_33.0331.C55.o6.np	Method	AAT/NAP
Start	18926	End	19477
GI	6006375	Score	657
Exons	18926..19363, 19440..19477		
GI Descrip.	(AP000559) Similar to ORF3 protein - rice tungro bacilliform virus &RTUORFS_2 (C40785) [Oryza sativa]		

Seq. No.	45353	Seq. ID	OJ000251_33.0331.C56
Gene No.	95881	Strand	+
Start	70	End	2538
Name	OJ000251_33.0331.C56.o1.gs	Method	GENSCAN
Start	70	End	2538
GI	none	Score	.67
Exons	70..1170, 1547..1662, 1698..2538		

Seq. No.	45353	Seq. ID	OJ000251_33.0331.C56
Gene No.	95882	Strand	-
Start	2754	End	4548
Name	OJ000251_33.0331.C56.o2.np	Method	AAT/NAP
Start	2754	End	4548
GI	7486632	Score	176
Exons	2754..2784, 3904..4244, 4370..4548		
GI Descrip.	hypothetical protein F8B4.160 - Arabidopsis thaliana gi 4049348 emb CAA22573.1  (AL034567) putative protein [Arabidopsis thaliana] gi 7270150 emb CAB79963.1  (AL161581) putative protein [Arabidopsis thaliana]		

Seq. No.	45353	Seq. ID	OJ000251_33.0331.C56
Gene No.	95882	Strand	-
Start	2754	End	4548
Name	OJ000251_33.0331.C56.o2.gs	Method	GENSCAN
Start	3280	End	4402
GI	none	Score	.56
Exons	3280..4279, 4308..4402		

Seq. No.	45353	Seq. ID	OJ000251_33.0331.C56
Gene No.	95882	Strand	-
Start	2754	End	4548
Name	OJ000251_33.0331.C56.o1.tm	Method	TBLASTX:Maize
Start	3784	End	4209
GI	none	Score	35
Exons	3784..3840, 3952..4203, 3959..4147, 4150..4209, 4159..4206		

Seq. No.	45353	Seq. ID	OJ000251_33.0331.C56
Gene No.	95882	Strand	-
Start	2754	End	4548
Name	OJ000251_33.0331.C56.o1.tc	Method	TBLASTX:Cress
Start	3943	End	4203
GI	none	Score	125
Exons	3943..4203, 3953..4147		

Seq. No.	45353	Seq. ID	OJ000251_33.0331.C56
Gene No.	95882	Strand	-
Start	2754	End	4548
Name	OJ000251_33.0331.C56.o1.ts	Method	TBLASTX:Soybean
Start	3943	End	4203



GI none  
Exons 3943..4203, 3953..4141

Score 113

Seq. No. 45354  
Gene No. 95883  
Start 1  
Name OJ000211\_24.0317.C2.o1.np  
Start 1  
GI 7485573  
Exons 1..67, 503..705  
GI Descrip. hypothetical protein F16J13.190 - Arabidopsis thaliana  
gi|4586117|emb|CAB40953.1| (AL049638) putative protein  
[Arabidopsis thaliana] gi|7267913|emb|CAB78255.1| (AL161533)  
putative protein [Arabidopsis thaliana]

Seq. ID OJ000211\_24.0317.C2  
Strand +  
End 705  
Method AAT/NAP  
End 705  
Score 196

Seq. No. 45354  
Gene No. 95883  
Start 1  
Name OJ000211\_24.0317.C2.o1.tc  
Start 487  
GI none  
Exons 487..615, 503..667, 542..667

Seq. ID OJ000211\_24.0317.C2  
Strand +  
End 705  
Method TBLASTX:Cress  
End 667  
Score 216

Seq. No. 45354  
Gene No. 95883  
Start 1  
Name OJ000211\_24.0317.C2.o1.ts  
Start 487  
GI none  
Exons 487..630, 503..694, 581..694

Seq. ID OJ000211\_24.0317.C2  
Strand +  
End 705  
Method TBLASTX:Soybean  
End 694  
Score 239

Seq. No. 45354  
Gene No. 95883  
Start 1  
Name OJ000211\_24.0317.C2.o1.tm  
Start 488  
GI none  
Exons 488..694, 503..694

Seq. ID OJ000211\_24.0317.C2  
Strand +  
End 705  
Method TBLASTX:Maize  
End 694  
Score 293

Seq. No. 45354  
Gene No. 95883  
Start 1  
Name OJ000211\_24.0317.C2.o1.gs  
Start 503  
GI none  
Exons 503..696

Seq. ID OJ000211\_24.0317.C2  
Strand +  
End 705  
Method GENSCAN  
End 696  
Score .93

Seq. No. 45355  
Gene No. 95884  
Start 907  
Name OJ000211\_24.0317.C3.o1.gs  
Start 907  
GI none  
Exons 907..1359

Seq. ID OJ000211\_24.0317.C3  
Strand -  
End 1359  
Method GENSCAN  
End 1359  
Score .95

Seq. No. 45356  
Gene No. 95885

Seq. ID OJ000211\_24.0317.C4  
Strand +

Start	2170	End	9316
Name	OJ000211_24.0317.C4.o2.gs	Method	GENSCAN
Start	2170	End	9316
GI	none	Score	.45
Exons	2170..2241, 2306..2470, 3098..3113, 3456..3692, 4025..4331, 5492..5712, 5810..5893, 6002..6184, 6732..6902, 7740..7949, 8413..8444, 8663..9316		

Seq. No.	45356	Seq. ID	OJ000211_24.0317.C4
Gene No.	95885	Strand	+
Start	2170	End	9316
Name	OJ000211_24.0317.C4.o2.np	Method	AAT/NAP
Start	5625	End	9298
GI	7485679	Score	1016
Exons	5625..5712, 6008..6184, 6732..6902, 7740..7975, 8124..8240, 8651..9298		
GI Descrip.	hypothetical protein F1707.19 - Arabidopsis thaliana gi 3176691 gb AAC18814.1  (AC003671) Contains homology to serine/threonine protein kinase gb X99618 from Mycobacterium tuberculosis. ESTs gb F14403, gb F14404, and gb N96730 come from this gene. [Arabidopsis thaliana]		

Seq. No.	45356	Seq. ID	OJ000211_24.0317.C4
Gene No.	95886	Strand	-
Start	9664	End	12360
Name	OJ000211_24.0317.C4.o3.tm	Method	TBLASTX:Maize
Start	5796	End	6213
GI	none	Score	77
Exons	5796..5876, 5805..5888, 5806..5880, 5872..5922, 6018..6185, 6019..6183, 6025..6213		

Seq. No.	45356	Seq. ID	OJ000211_24.0317.C4
Gene No.	95886	Strand	-
Start	9664	End	12360
Name	OJ000211_24.0317.C4.o1.tc	Method	TBLASTX:Cress
Start	6091	End	7831
GI	none	Score	98
Exons	6091..6180, 6733..6858, 6734..6904, 7738..7761, 7744..7827, 7745..7831		

Seq. No.	45356	Seq. ID	OJ000211_24.0317.C4
Gene No.	95886	Strand	-
Start	9664	End	12360
Name	OJ000211_24.0317.C4.o2.tm	Method	TBLASTX:Maize
Start	6731	End	8650
GI	none	Score	282
Exons	6731..6901, 6733..6903, 6734..6904, 7709..7828, 7738..7827, 8603..8650, 8609..8650		

Seq. No.	45356	Seq. ID	OJ000211_24.0317.C4
Gene No.	95886	Strand	-
Start	9664	End	12360
Name	OJ000211_24.0317.C4.o1.ts	Method	TBLASTX:Soybean
Start	6733	End	6904
GI	none	Score	204
Exons	6733..6858, 6734..6904, 6834..6890		

Seq. No.	45356	Seq. ID	OJ000211_24.0317.C4
Gene No.	95886	Strand	-
Start	9664	End	12360
Name	OJ000211_24.0317.C4.o1.tw	Method	TBLASTX:Wheat
Start	7736	End	8222
GI	none	Score	160
Exons	7736..7942, 7738..7950, 7738..7950, 7739..7963, 8129..8218, 8130..8219, 8136..8222, 8137..8220		

Seq. No.	45356	Seq. ID	OJ000211_24.0317.C4
Gene No.	95886	Strand	-
Start	9664	End	12360
Name	OJ000211_24.0317.C4.o2.ts	Method	TBLASTX:Soybean
Start	7765	End	7931
GI	none	Score	182
Exons	7765..7920, 7778..7927, 7782..7931, 7787..7927		

Seq. No.	45356	Seq. ID	OJ000211_24.0317.C4
Gene No.	95886	Strand	-
Start	9664	End	12360
Name	OJ000211_24.0317.C4.o1.tm	Method	TBLASTX:Maize
Start	7829	End	9239
GI	none	Score	194
Exons	7829..7963, 7831..7950, 8130..8219, 8130..8219, 8137..8220, 8651..8797, 8651..8776, 8798..8833, 8834..9019, 8851..9018, 8864..9037, 9094..9114, 9095..9118, 9146..9223, 9148..9222, 9168..9239		

Seq. No.	45356	Seq. ID	OJ000211_24.0317.C4
Gene No.	95886	Strand	-
Start	9664	End	12360
Name	OJ000211_24.0317.C4.o2.tw	Method	TBLASTX:Wheat
Start	8738	End	9022
GI	none	Score	83
Exons	8738..8797, 8740..8796, 8798..8818, 8834..9022, 8845..9018		

Seq. No.	45356	Seq. ID	OJ000211_24.0317.C4
Gene No.	95886	Strand	-
Start	9664	End	12360
Name	OJ000211_24.0317.C4.o3.gs	Method	GENSCAN
Start	9664	End	12279
GI	none	Score	.56
Exons	9664..9923, 10003..10081, 10142..10274, 10326..10497, 11380..11521, 11880..11996, 12157..12279		

Seq. No.	45356	Seq. ID	OJ000211_24.0317.C4
Gene No.	95886	Strand	-
Start	9664	End	12360
Name	OJ000211_24.0317.C4.o3.np	Method	AAT/NAP
Start	10340	End	12360
GI	7471586	Score	49
Exons	10340..10414, 11381..11521, 12336..12360		
GI Descrip.	conserved hypothetical protein - Deinococcus radiodurans (strain R1) gi 6460210 gb AAFL1939.1 AE002070_1 (AE002070) conserved hypothetical protein [Deinococcus radiodurans]		

Seq. No.	45356	Seq. ID	OJ000211_24.0317.C4
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Gene No.	95886	Strand	-
Start	9664	End	12360
Name	OJ000211_24.0317.C4.o4.tm	Method	TBLASTX:Maize
Start	11381	End	11985
GI	none	Score	109
Exons	11381..11521, 11386..11523, 11388..11516, 11607..11693, 11611..11673, 11875..11985, 11877..11981		

Seq. No.	45357	Seq. ID	OJ000211_24.0317.C5
Gene No.	95887	Strand	+
Start	3134	End	5179
Name	OJ000211_24.0317.C5.o2.gs	Method	GENSCAN
Start	3134	End	5179
GI	none	Score	.66
Exons	3134..3211, 3261..3533, 3698..4036, 4272..4353, 4981..5053, 5155..5179		

Seq. No.	45357	Seq. ID	OJ000211_24.0317.C5
Gene No.	95888	Strand	+
Start	6939	End	9651
Name	OJ000211_24.0317.C5.o1.np	Method	AAT/NAP
Start	5938	End	9651
GI	6714301	Score	110
Exons	5938..5961, 7173..7348, 9594..9651		
GI Descrip.	(AC013354) F15H18.9 [Arabidopsis thaliana]		

Seq. No.	45357	Seq. ID	OJ000211_24.0317.C5
Gene No.	95888	Strand	+
Start	6939	End	9651
Name	OJ000211_24.0317.C5.o3.gs	Method	GENSCAN
Start	6939	End	7469
GI	none	Score	.85
Exons	6939..7344, 7417..7469		

Seq. No.	45357	Seq. ID	OJ000211_24.0317.C5
Gene No.	95889	Strand	+
Start	9623	End	9724
Name	OJ000211_24.0317.C5.o4.gs	Method	GENSCAN
Start	9623	End	9724
GI	none	Score	.61
Exons	9623..9724		

Seq. No.	45357	Seq. ID	OJ000211_24.0317.C5
Gene No.	95890	Strand	-
Start	118	End	902
Name	OJ000211_24.0317.C5.o1.gs	Method	GENSCAN
Start	118	End	902
GI	none	Score	.81
Exons	118..560, 743..902		

Seq. No.	45358	Seq. ID	OJ000211_24.0317.C6
Gene No.	95891	Strand	+
Start	522	End	3960
Name	OJ000211_24.0317.C6.o1.np	Method	AAT/NAP
Start	522	End	3748
GI	5734718	Score	1011
Exons	522..578, 1930..2073, 2192..2461, 2686..2822, 2902..3048,		

3137..3748  
GI Descrip. (AC008075) F24J5.16 [Arabidopsis thaliana]

Seq. No.	45358	Seq. ID	OJ000211_24.0317.C6
Gene No.	95891	Strand	+
Start	522	End	3960
Name	OJ000211_24.0317.C6.o1.gs	Method	GENSCAN
Start	1655	End	3808
GI	none	Score	.92
Exons	1655..1775, 1936..2073, 2192..2461, 2686..2822, 2902..3048, 3137..3808		

  

Seq. No.	45358	Seq. ID	OJ000211_24.0317.C6
Gene No.	95891	Strand	+
Start	522	End	3960
Name	OJ000211_24.0317.C6.o1.gp	Method	AAT/GAP
Start	2345	End	2966
GI	LIB3434-048-P1-K1-A11	Score	1044
Exons	2345..2822, 2902..2966		
GI Descrip.	'5734718/gb AAD49983.1 AC008075_16 2.0e-26 (AC008075) F24J5.16 [Arabidopsis thaliana]'		

  

Seq. No.	45358	Seq. ID	OJ000211_24.0317.C6
Gene No.	95891	Strand	+
Start	522	End	3960
Name	OJ000211_24.0317.C6.o2.gp	Method	AAT/GAP
Start	3460	End	3960
GI	none	Score	966
Exons	3460..3960		

  

Seq. No.	45358	Seq. ID	OJ000211_24.0317.C6
Gene No.	95892	Strand	+
Start	7804	End	9421
Name	OJ000211_24.0317.C6.o3.np	Method	AAT/NAP
Start	7804	End	9421
GI	7484956	Score	84
Exons	7804..8094, 9373..9421		
GI Descrip.	extensin homolog F2401.18 - Arabidopsis thaliana gi 2781362 gb AAB96863.1  (AC003113) F2401.18 [Arabidopsis thaliana] gi 5454187 gb AAD43602.1 AC005698_1 (AC005698) T3P18.1 [Arabidopsis thaliana]		

  

Seq. No.	45358	Seq. ID	OJ000211_24.0317.C6
Gene No.	95893	Strand	+
Start	24968	End	29163
Name	OJ000211_24.0317.C6.o5.gs	Method	GENSCAN
Start	24968	End	29163
GI	none	Score	.87
Exons	24968..27070, 27241..27843, 27934..28167, 28536..28630, 28678..28787, 28829..29163		

  

Seq. No.	45358	Seq. ID	OJ000211_24.0317.C6
Gene No.	95893	Strand	+
Start	24968	End	29163
Name	OJ000211_24.0317.C6.o4.np	Method	AAT/NAP
Start	25337	End	27264
GI	7489501	Score	798

Exons 25337..25466, 25666..27264  
 GI Descrip. NBS-LRR type resistance protein - rice (fragment)  
 gi|2792220|gb|AAB96985.1| (AF032688) NBS-LRR type resistance  
 protein [Oryza sativa]

Seq. No.	45358	Seq. ID	OJ000211_24.0317.C6
Gene No.	95894	Strand	-
Start	3843	End	8220
Name	OJ000211_24.0317.C6.o3.gp	Method	AAT/GAP
Start	3843	End	6653
GI	14336_1.R1084	Score	2295
Exons	3843..3880, 4330..4799, 4895..4967, 5117..5231, 5366..5448, 5529..5682, 6216..6452, 6551..6653		
GI Descrip.	'4176420/dbj BAA37167  2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	45358	Seq. ID	OJ000211_24.0317.C6
Gene No.	95894	Strand	-
Start	3843	End	8220
Name	OJ000211_24.0317.C6.o2.gs	Method	GENSCAN
Start	4657	End	8220
GI	none	Score	.94
Exons	4657..4799, 4895..4967, 5117..5231, 5366..5448, 5529..5682, 6216..6452, 6551..6774, 6950..7067, 7751..8220		

Seq. No.	45358	Seq. ID	OJ000211_24.0317.C6
Gene No.	95894	Strand	-
Start	3843	End	8220
Name	OJ000211_24.0317.C6.o2.np	Method	AAT/NAP
Start	4687	End	7241
GI	6382496	Score	480
Exons	4687..4799, 4895..4967, 5117..5231, 5366..5428, 5503..5670, 6216..6452, 6551..6759, 6950..7241		
GI Descrip.	(AC010704) nucellin-like protein [Arabidopsis thaliana]		

Seq. No.	45358	Seq. ID	OJ000211_24.0317.C6
Gene No.	95895	Strand	-
Start	14015	End	16826
Name	OJ000211_24.0317.C6.o3.gs	Method	GENSCAN
Start	14015	End	16826
GI	none	Score	.52
Exons	14015..14206, 15516..15540, 16211..16342, 16771..16826		

Seq. No.	45358	Seq. ID	OJ000211_24.0317.C6
Gene No.	95896	Strand	-
Start	19719	End	21183
Name	OJ000211_24.0317.C6.o2.ts	Method	TBLASTX:Soybean
Start	1917	End	2732
GI	none	Score	88
Exons	1917..2075, 1982..2077, 2194..2466, 2196..2462, 2212..2469, 2213..2470, 2685..2732		

Seq. No.	45358	Seq. ID	OJ000211_24.0317.C6
Gene No.	95896	Strand	-
Start	19719	End	21183
Name	OJ000211_24.0317.C6.o2.tm	Method	TBLASTX:Maize
Start	2027	End	2424

GI	none	Score	59
Exons	2027..2071, 2027..2071, 2028..2072, 2185..2406, 2190..2402, 2192..2407, 2196..2408, 2395..2424		

Seq. No.	45358	Seq. ID	OJ000211_24.0317.C6
Gene No.	95896	Strand	-
Start	19719	End	21183
Name	OJ000211_24.0317.C6.o1.ts	Method	TBLASTX:Soybean
Start	2733	End	3349
GI	none	Score	84
Exons	2733..2825, 2902..3048, 2904..3044, 3135..3347, 3136..3348, 3137..3349		

Seq. No.	45358	Seq. ID	OJ000211_24.0317.C6
Gene No.	95896	Strand	-
Start	19719	End	21183
Name	OJ000211_24.0317.C6.o1.tc	Method	TBLASTX:Cress
Start	2778	End	3271
GI	none	Score	56
Exons	2778..2825, 2902..3048, 2907..3050, 2907..3044, 3134..3238, 3135..3206, 3137..3271		

Seq. No.	45358	Seq. ID	OJ000211_24.0317.C6
Gene No.	95896	Strand	-
Start	19719	End	21183
Name	OJ000211_24.0317.C6.o4.tm	Method	TBLASTX:Maize
Start	3578	End	3835
GI	none	Score	241
Exons	3578..3811, 3578..3835		

Seq. No.	45358	Seq. ID	OJ000211_24.0317.C6
Gene No.	95896	Strand	-
Start	19719	End	21183
Name	OJ000211_24.0317.C6.o1.tm	Method	TBLASTX:Maize
Start	4681	End	7899
GI	none	Score	121
Exons	4681..4809, 4688..4801, 4884..4979, 4897..4968, 5063..5233, 5103..5225, 5348..5446, 5365..5421, 5524..5679, 5524..5676, 5526..5681, 6215..6451, 6216..6452, 6216..6458, 6545..6775, 6548..6724, 6550..6777, 6550..6777, 6570..6791, 6948..7064, 6950..7066, 6951..7064, 7750..7812, 7751..7813, 7873..7899		

Seq. No.	45358	Seq. ID	OJ000211_24.0317.C6
Gene No.	95896	Strand	-
Start	19719	End	21183
Name	OJ000211_24.0317.C6.o5.ts	Method	TBLASTX:Soybean
Start	5103	End	5681
GI	none	Score	93
Exons	5103..5234, 5105..5251, 5365..5421, 5523..5609, 5631..5681		

Seq. No.	45358	Seq. ID	OJ000211_24.0317.C6
Gene No.	95896	Strand	-
Start	19719	End	21183
Name	OJ000211_24.0317.C6.o1.tw	Method	TBLASTX:Wheat
Start	5565	End	6634
GI	none	Score	124
Exons	5565..5681, 5566..5679, 5577..5681, 6215..6451, 6216..6452,		

6216..6452, 6217..6453, 6379..6453, 6545..6634, 6546..6629,  
6550..6633

Seq. No.	45358	Seq. ID	OJ000211_24.0317.C6
Gene No.	95896	Strand	-
Start	19719	End	21183
Name	OJ000211_24.0317.C6.o4.gs	Method	GENSCAN
Start	19719	End	21183
GI	none	Score	.66
Exons	19719..19796, 19884..20018, 20764..20846, 21093..21183		

Seq. No.	45358	Seq. ID	OJ000211_24.0317.C6
Gene No.	95897	Strand	
Start	25714	End	26578
Name	OJ000211_24.0317.C6.o4.ts	Method	TBLASTX:Soybean
Start	25714	End	26203
GI	none	Score	246
Exons	25714..25851, 25715..26041, 25894..26064, 26123..26203		

Seq. No.	45358	Seq. ID	OJ000211_24.0317.C6
Gene No.	95897	Strand	
Start	25714	End	26578
Name	OJ000211_24.0317.C6.o3.tm	Method	TBLASTX:Maize
Start	26093	End	26578
GI	none	Score	272
Exons	26093..26578, 26194..26559, 26285..26563		

Seq. No.	45358	Seq. ID	OJ000211_24.0317.C6
Gene No.	95897	Strand	
Start	25714	End	26578
Name	OJ000211_24.0317.C6.o3.ts	Method	TBLASTX:Soybean
Start	26237	End	26485
GI	4397495	Score	257
Exons	26237..26485, 26248..26433		
GI Descrip.	4234955 2.0e-22 (AF098971) NBS-LRR-like protein cD8 [Phaseolus vulgaris]		

Seq. No.	45359	Seq. ID	OJ000211_24.0317.C7
Gene No.	95898	Strand	+
Start	16035	End	30613
Name	OJ000211_24.0317.C7.o2.gs	Method	GENSCAN
Start	16035	End	21946
GI	none	Score	.68
Exons	16035..16302, 16411..17584, 17849..18025, 18068..18966, 19580..19637, 19976..20168, 20289..20406, 21589..21747, 21786..21946		

Seq. No.	45359	Seq. ID	OJ000211_24.0317.C7
Gene No.	95898	Strand	+
Start	16035	End	30613
Name	OJ000211_24.0317.C7.o1.np	Method	AAT/NAP
Start	16404	End	18323
GI	7489501	Score	822
Exons	16404..16539, 16730..18323		
GI Descrip.	NBS-LRR type resistance protein - rice (fragment) gi 2792220 gb AAB96985.1  (AF032688) NBS-LRR type resistance protein [Oryza sativa]		



Seq. No.	45359	Seq. ID	OJ000211_24.0317.C7
Gene No.	95898	Strand	+
Start	16035	End	30613
Name	OJ000211_24.0317.C7.o2.np	Method	AAT/NAP
Start	19873	End	30613
GI	6815097	Score	1987
Exons	19873..19891, 24287..24444, 24559..25473, 25887..26304, 29103..29466, 29608..30039, 30280..30613		
GI Descrip.	(AP001081) Similar to putative copia polyprotein (AC006248) [Oryza sativa]		

Seq. No.	45359	Seq. ID	OJ000211_24.0317.C7
Gene No.	95898	Strand	+
Start	16035	End	30613
Name	OJ000211_24.0317.C7.o3.gs	Method	GENSCAN
Start	25133	End	27298
GI	none	Score	.56
Exons	25133..25180, 25249..25479, 25897..26223, 27071..27298		

Seq. No.	45359	Seq. ID	OJ000211_24.0317.C7
Gene No.	95898	Strand	+
Start	16035	End	30613
Name	OJ000211_24.0317.C7.o4.gs	Method	GENSCAN
Start	28154	End	28411
GI	none	Score	1
Exons	28154..28411		

Seq. No.	45359	Seq. ID	OJ000211_24.0317.C7
Gene No.	95899	Strand	+
Start	45469	End	45631
Name	OJ000211_24.0317.C7.o3.np	Method	AAT/NAP
Start	45469	End	45631
GI	5042462	Score	121
Exons	45469..45510, 45539..45631		
GI Descrip.	(AC007789) putative negatively light-regulated protein [Oryza sativa]		

Seq. No.	45359	Seq. ID	OJ000211_24.0317.C7
Gene No.	95900	Strand	-
Start	31597	End	43517
Name	OJ000211_24.0317.C7.o1.ts	Method	TBLASTX:Soybean
Start	16773	End	17321
GI	none	Score	267
Exons	16773..16898, 16776..17162, 16997..17125, 17163..17321, 17213..17320		

Seq. No.	45359	Seq. ID	OJ000211_24.0317.C7
Gene No.	95900	Strand	-
Start	31597	End	43517
Name	OJ000211_24.0317.C7.o4.tm	Method	TBLASTX:Maize
Start	17151	End	17636
GI	none	Score	276
Exons	17151..17636, 17252..17617		

Seq. No.	45359	Seq. ID	OJ000211_24.0317.C7
Gene No.	95900	Strand	-

Start	31597	End	43517
Name	OJ000211_24.0317.C7.o2.ts	Method	TBLASTX:Soybean
Start	17322	End	17543
GI	4397495	Score	232
Exons	17322..17543, 17339..17491		
GI Descrip.	4234955 2.0e-22 (AF098971) NBS-LRR-like protein cD8 [Phaseolus vulgaris]		

Seq. No.	45359	Seq. ID	OJ000211_24.0317.C7
Gene No.	95900	Strand	-
Start	31597	End	43517
Name	OJ000211_24.0317.C7.o6.gs	Method	GENSCAN
Start	31597	End	43517
GI	none	Score	.88
Exons	31597..31730, 33682..33808, 34026..34228, 34361..34493, 34737..35036, 35271..35460, 35968..36145, 36254..36308, 36636..39650, 39745..39997, 41438..42474, 43332..43517		

Seq. No.	45359	Seq. ID	OJ000211_24.0317.C7
Gene No.	95900	Strand	-
Start	31597	End	43517
Name	OJ000211_24.0317.C7.o3.tm	Method	TBLASTX:Maize
Start	31822	End	34233
GI	none	Score	39
Exons	31822..31857, 31902..31934, 31938..32033, 31942..32010, 33606..33809, 33614..33811, 33616..33810, 34014..34229, 34022..34231, 34026..34223, 34030..34233		

Seq. No.	45359	Seq. ID	OJ000211_24.0317.C7
Gene No.	95900	Strand	-
Start	31597	End	43517
Name	OJ000211_24.0317.C7.o2.tm	Method	TBLASTX:Maize
Start	35367	End	36925
GI	none	Score	103
Exons	35367..35423, 35368..35463, 35369..35464, 36433..36543, 36434..36544, 36434..36547, 36510..36551, 36634..36900, 36635..36730, 36642..36917, 36645..36914, 36773..36925, 36791..36919		

Seq. No.	45359	Seq. ID	OJ000211_24.0317.C7
Gene No.	95900	Strand	-
Start	31597	End	43517
Name	OJ000211_24.0317.C7.o1.tm	Method	TBLASTX:Maize
Start	37698	End	38237
GI	none	Score	79
Exons	37698..37724, 37722..37796, 37723..37797, 37723..37800, 37725..37802, 37806..38192, 37818..38192, 37832..38194, 37832..38200, 38199..38237		

Seq. No.	45360	Seq. ID	OJ000211_24.0317.C8
Gene No.	95901	Strand	-
Start	257	End	8263
Name	OJ000211_24.0317.C8.o1.gs	Method	GENSCAN
Start	257	End	8263
GI	none	Score	.67
Exons	257..531, 1049..1171, 1195..1261, 2305..2394, 2447..2691, 3844..4349, 4519..5000, 5454..5640, 6022..6163, 7888..7973,		

8078..8263

Seq. No.	45360	Seq. ID	OJ000211_24.0317.C8
Gene No.	95901	Strand	-
Start	257	End	8263
Name	OJ000211_24.0317.C8.o1.np	Method	AAT/NAP
Start	950	End	3796
GI	1169170	Score	249
Exons	950..1016, 2422..2633, 3346..3382, 3559..3796		
GI Descrip.	APOCYTOCHROME F PRECURSOR gi 1363527 pir  S58564 plastoquinol--plastocyanin reductase (EC 1.10.99.1) cytochrome f - maize chloroplast gi 902234 emb CAA60298  (X86563) cytochrome f [Zea mays]		

Seq. No.	45360	Seq. ID	OJ000211_24.0317.C8
Gene No.	95901	Strand	-
Start	257	End	8263
Name	OJ000211_24.0317.C8.o2.np	Method	AAT/NAP
Start	2150	End	6150
GI	7487112	Score	478
Exons	2150..2192, 4675..5000, 5454..5634, 6022..6150		
GI Descrip.	hypothetical protein T17A13.50 - Arabidopsis thaliana gi 7269821 emb CAB79681.1  (AL161574) putative protein [Arabidopsis thaliana]		

Seq. No.	45360	Seq. ID	OJ000211_24.0317.C8
Gene No.	95901	Strand	-
Start	257	End	8263
Name	OJ000211_24.0317.C8.o1.ts	Method	TBLASTX:Soybean
Start	2435	End	2634
GI	none	Score	204
Exons	2435..2632, 2439..2630, 2439..2633, 2440..2634		

Seq. No.	45360	Seq. ID	OJ000211_24.0317.C8
Gene No.	95901	Strand	-
Start	257	End	8263
Name	OJ000211_24.0317.C8.o2.tc	Method	TBLASTX:Cress
Start	2439	End	2634
GI	none	Score	204
Exons	2439..2630, 2439..2633, 2440..2634		

Seq. No.	45360	Seq. ID	OJ000211_24.0317.C8
Gene No.	95901	Strand	-
Start	257	End	8263
Name	OJ000211_24.0317.C8.o2.tm	Method	TBLASTX:Maize
Start	2440	End	2609
GI	none	Score	271
Exons	2440..2604, 2441..2605, 2442..2609		

Seq. No.	45360	Seq. ID	OJ000211_24.0317.C8
Gene No.	95901	Strand	-
Start	257	End	8263
Name	OJ000211_24.0317.C8.o4.tm	Method	TBLASTX:Maize
Start	3758	End	4151
GI	none	Score	101
Exons	3758..3889, 3781..3888, 3961..4047, 3965..4048, 3968..4045, 3969..4046, 4048..4116, 4052..4111, 4054..4116, 4114..4146,		

4122..4151

Seq. No.	45360	Seq. ID	OJ000211_24.0317.C8
Gene No.	95901	Strand	-
Start	257	End	8263
Name	OJ000211_24.0317.C8.o1.tc	Method	TBLASTX:Cress
Start	4499	End	5008
GI	none	Score	35
Exons	4499..4567, 4687..4812, 4687..4794, 4706..4813, 4853..5008, 4867..5001		

Seq. No.	45360	Seq. ID	OJ000211_24.0317.C8
Gene No.	95901	Strand	-
Start	257	End	8263
Name	OJ000211_24.0317.C8.o1.tm	Method	TBLASTX:Maize
Start	4683	End	4954
GI	none	Score	206
Exons	4683..4898, 4684..4908, 4684..4929, 4706..4924, 4895..4954, 4903..4953, 4910..4954		

Seq. No.	45360	Seq. ID	OJ000211_24.0317.C8
Gene No.	95901	Strand	-
Start	257	End	8263
Name	OJ000211_24.0317.C8.o2.ts	Method	TBLASTX:Soybean
Start	4756	End	4993
GI	none	Score	118
Exons	4756..4992, 4757..4993, 4759..4992, 4811..4993		

Seq. No.	45360	Seq. ID	OJ000211_24.0317.C8
Gene No.	95901	Strand	-
Start	257	End	8263
Name	OJ000211_24.0317.C8.o3.ts	Method	TBLASTX:Soybean
Start	5452	End	5637
GI	none	Score	175
Exons	5452..5637, 5453..5626		

Seq. No.	45360	Seq. ID	OJ000211_24.0317.C8
Gene No.	95901	Strand	-
Start	257	End	8263
Name	OJ000211_24.0317.C8.o3.tm	Method	TBLASTX:Maize
Start	5599	End	6166
GI	none	Score	67
Exons	5599..5640, 5600..5641, 6013..6165, 6019..6162, 6020..6166		

Seq. No.	45361	Seq. ID	OJ000221_24.0315.C2
Gene No.	95902	Strand	+
Start	2825	End	10221
Name	OJ000221_24.0315.C2.o2.gs	Method	GENSCAN
Start	2825	End	10221
GI	none	Score	.72
Exons	2825..2925, 5504..5540, 5974..6341, 6447..7407, 7507..7602, 8326..8462, 8566..8769, 10155..10221		

Seq. No.	45361	Seq. ID	OJ000221_24.0315.C2
Gene No.	95902	Strand	+
Start	2825	End	10221
Name	OJ000221_24.0315.C2.o3.np	Method	AAT/NAP

Start	6175	End	8632
GI	6730753	Score	1004
Exons	6175..6336, 6415..7407, 7507..7602, 8326..8632		
GI Descrip.	(AC016529) unknown protein [Arabidopsis thaliana]		

Seq. No.	45361	Seq. ID	OJ000221_24.0315.C2
Gene No.	95902	Strand	+
Start	2825	End	10221
Name	OJ000221_24.0315.C2.o4.np	Method	AAT/NAP
Start	9781	End	9863
GI	7485509	Score	92
Exons	9781..9863		
GI Descrip.	hypothetical protein F15B8.40 - Arabidopsis thaliana gi 4678270 emb CAB41178.1  (AL049660) protein kinase-like protein [Arabidopsis thaliana]		

Seq. No.	45361	Seq. ID	OJ000221_24.0315.C2
Gene No.	95903	Strand	-
Start	205	End	2249
Name	OJ000221_24.0315.C2.o1.np	Method	AAT/NAP
Start	205	End	1379
GI	6166140	Score	739
Exons	205..484, 645..768, 927..1011, 1089..1205, 1294..1379		
GI Descrip.	ELONGATION FACTOR 1-BETA (EF-1-BETA) gi 1084457 pir  S41086 elongation factor 1-beta - Rice gi 432368 dbj BAA04903  (D23674) elongation factor 1 beta [Oryza sativa]		

Seq. No.	45361	Seq. ID	OJ000221_24.0315.C2
Gene No.	95903	Strand	-
Start	205	End	2249
Name	OJ000221_24.0315.C2.o1.gp	Method	AAT/GAP
Start	371	End	2249
GI	159_1.R1084	Score	1109
Exons	371..484, 645..768, 927..1011, 1089..1205, 1294..1410, 2177..2249		
GI Descrip.	'3292830/emb CAA19820.1  1.0e-15 (AL031018) putative protein [Arabidopsis thaliana]'		

Seq. No.	45361	Seq. ID	OJ000221_24.0315.C2
Gene No.	95903	Strand	-
Start	205	End	2249
Name	OJ000221_24.0315.C2.o1.gs	Method	GENSCAN
Start	371	End	1379
GI	none	Score	.85
Exons	371..484, 645..768, 927..1011, 1089..1205, 1294..1379		

Seq. No.	45361	Seq. ID	OJ000221_24.0315.C2
Gene No.	95904	Strand	-
Start	2828	End	3355
Name	OJ000221_24.0315.C2.o2.ts	Method	TBLASTX:Soybean
Start	356	End	1380
GI	none	Score	117
Exons	356..484, 360..524, 372..470, 1091..1213, 1104..1205, 1104..1229, 1290..1379, 1291..1380		

Seq. No.	45361	Seq. ID	OJ000221_24.0315.C2
Gene No.	95904	Strand	-

Start	2828	End	3355
Name	OJ000221_24.0315.C2.o1.tc	Method	TBLASTX:Cress
Start	360	End	1392
GI	none	Score	95
Exons	360..524, 371..487, 372..500, 1091..1213, 1098..1205, 1281..1382, 1291..1392		

Seq. No.	45361	Seq. ID	OJ000221_24.0315.C2
Gene No.	95904	Strand	-
Start	2828	End	3355
Name	OJ000221_24.0315.C2.o2.tm	Method	TBLASTX:Maize
Start	360	End	1401
GI	none	Score	125
Exons	360..524, 372..482, 926..1006, 927..1025, 931..1014, 1091..1213, 1101..1202, 1105..1206, 1281..1385, 1290..1385, 1294..1401, 1295..1393		

Seq. No.	45361	Seq. ID	OJ000221_24.0315.C2
Gene No.	95904	Strand	-
Start	2828	End	3355
Name	OJ000221_24.0315.C2.o1.tw	Method	TBLASTX:Wheat
Start	982	End	1369
GI	none	Score	137
Exons	982..1014, 1089..1205, 1091..1213, 1098..1211, 1281..1361, 1290..1361, 1291..1362, 1295..1369		

Seq. No.	45361	Seq. ID	OJ000221_24.0315.C2
Gene No.	95904	Strand	-
Start	2828	End	3355
Name	OJ000221_24.0315.C2.o2.np	Method	AAT/NAP
Start	2828	End	3355
GI	6539585	Score	133
Exons	2828..2901, 3184..3355		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	45361	Seq. ID	OJ000221_24.0315.C2
Gene No.	95905	Strand	-
Start	6238	End	8466
Name	OJ000221_24.0315.C2.o1.ts	Method	TBLASTX:Soybean
Start	6238	End	7407
GI	none	Score	66
Exons	6238..6321, 6436..6543, 6757..6819, 6844..6927, 6846..6905, 6975..7205, 6985..7206, 7276..7407		

Seq. No.	45361	Seq. ID	OJ000221_24.0315.C2
Gene No.	95905	Strand	-
Start	6238	End	8466
Name	OJ000221_24.0315.C2.o1.tm	Method	TBLASTX:Maize
Start	6436	End	8466
GI	none	Score	44
Exons	6436..6525, 6592..6663, 6694..6834, 6801..6905, 6844..6927, 6975..7205, 6985..7206, 7276..7407, 7501..7605, 8314..8466, 8331..8462		

Seq. No.	45361	Seq. ID	OJ000221_24.0315.C2
Gene No.	95905	Strand	-
Start	6238	End	8466

Name OJ000221\_24.0315.C2.o3.ts  
 Start 8320  
 GI none  
 Exons 8320..8466

Method TBLASTX:Soybean  
 End 8466  
 Score 182

Seq. No. 45361  
 Gene No. 95906  
 Start 9643  
 Name OJ000221\_24.0315.C2.o3.tm  
 Start 9643  
 GI none  
 Exons 9643..9834, 9644..9835

Seq. ID OJ000221\_24.0315.C2  
 Strand -  
 End 9835  
 Method TBLASTX:Maize  
 End 9835  
 Score 225

Seq. No. 45362  
 Gene No. 95907  
 Start 2123  
 Name OJ000221\_24.0315.C3.o1.gs  
 Start 2123  
 GI none  
 Exons 2123..2682, 2765..2984

Seq. ID OJ000221\_24.0315.C3  
 Strand -  
 End 3058  
 Method GENSCAN  
 End 2984  
 Score .99

Seq. No. 45362  
 Gene No. 95907  
 Start 2123  
 Name OJ000221\_24.0315.C3.o1.np  
 Start 2197  
 GI 4895239  
 Exons 2197..2699, 2765..2984  
 GI Descrip. (AC007659) hypothetical protein [Arabidopsis thaliana]

Seq. ID OJ000221\_24.0315.C3  
 Strand -  
 End 3058  
 Method AAT/NAP  
 End 2984  
 Score 489

Seq. No. 45362  
 Gene No. 95907  
 Start 2123  
 Name OJ000221\_24.0315.C3.o1.gp  
 Start 2441  
 GI 24903\_1.R1084  
 Exons 2441..2819  
 GI Descrip. '4895239/gb|AAD32824.1|AC007659\_6 5.0e-10 (AC007659) hypothetical protein [Arabidopsis thaliana]'

Seq. ID OJ000221\_24.0315.C3  
 Strand -  
 End 3058  
 Method AAT/GAP  
 End 2819  
 Score 714

Seq. No. 45362  
 Gene No. 95907  
 Start 2123  
 Name OJ000221\_24.0315.C3.o2.gp  
 Start 2832  
 GI 2801199  
 Exons 2832..3058

Seq. ID OJ000221\_24.0315.C3  
 Strand -  
 End 3058  
 Method AAT/GAP  
 End 3058  
 Score 367

Seq. No. 45362  
 Gene No. 95908  
 Start 13573  
 Name OJ000221\_24.0315.C3.o1.tm  
 Start 2195  
 GI none  
 Exons 2195..2353, 2233..2349, 2425..2466, 2426..2467, 2506..2541, 2515..2613, 2600..2629, 2769..2822, 2773..2871, 2874..2984, 2875..2979

Seq. ID OJ000221\_24.0315.C3  
 Strand -  
 End 14998  
 Method TBLASTX:Maize  
 End 2984  
 Score 197

Seq. No.	45362	Seq. ID	OJ000221_24.0315.C3
Gene No.	95908	Strand	-
Start	13573	End	14998
Name	OJ000221_24.0315.C3.o1.tc	Method	TBLASTX:Cress
Start	9561	End	11158
GI	none	Score	79
Exons	9561..9731, 9738..9932, 9738..10028, 9777..10160, 9780..9968, 9831..10043, 9897..10244, 9908..10180, 9930..10178, 9998..10168, 9999..10352, 10095..10457, 10098..10283, 10146..10376, 10218..10565, 10272..10355, 10314..10667, 10350..10592, 10401..10769, 10518..10832, 10563..10775, 10587..10790, 10611..10823, 10829..11002, 10832..11149, 10838..10981, 11042..11158		

Seq. No.	45362	Seq. ID	OJ000221_24.0315.C3
Gene No.	95908	Strand	-
Start	13573	End	14998
Name	OJ000221_24.0315.C3.o1.ts	Method	TBLASTX:Soybean
Start	9645	End	11164
GI	none	Score	66
Exons	9645..9749, 9681..9881, 9738..9887, 9738..10244, 9741..10445, 9783..10655, 10122..10244, 10197..10841, 10395..10769, 10503..10820, 10523..10840, 10829..11158, 10829..11158, 10829..11164		

Seq. No.	45362	Seq. ID	OJ000221_24.0315.C3
Gene No.	95908	Strand	-
Start	13573	End	14998
Name	OJ000221_24.0315.C3.o2.tm	Method	TBLASTX:Maize
Start	9738	End	11155
GI	none	Score	145
Exons	9738..10148, 9741..10205, 9780..10343, 9909..10568, 9911..10180, 9954..10673, 10104..10772, 10221..10832, 10524..10820, 10536..10886, 10709..10846, 10709..10843, 10829..11155		

Seq. No.	45362	Seq. ID	OJ000221_24.0315.C3
Gene No.	95908	Strand	-
Start	13573	End	14998
Name	OJ000221_24.0315.C3.o3.np	Method	AAT/NAP
Start	13573	End	14998
GI	5852084	Score	89
Exons	13573..13674, 14927..14998		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	45363	Seq. ID	OJ000221_24.0315.C4
Gene No.	95909	Strand	+
Start	171	End	9022
Name	OJ000221_24.0315.C4.o1.gs	Method	GENSCAN
Start	171	End	9022
GI	none	Score	.57
Exons	171..276, 959..1104, 5029..5341, 5424..5630, 6151..6352, 6522..6579, 6920..7059, 8112..8232, 8392..8588, 8873..9022		

Seq. No.	45363	Seq. ID	OJ000221_24.0315.C4
Gene No.	95909	Strand	+
Start	171	End	9022



Name	OJ000221_24.0315.C4.o1.gp	Method	AAT/GAP
Start	5000	End	7209
GI	2806_1.R1084	Score	2583
Exons	5000..5341, 5480..5630, 6151..6413, 6522..6579, 6676..7209		
GI Descrip.	'5882728/gb AAD55281.1 AC008263_12 2.0e-25 (AC008263) ESTs gb_T75898, gb_R65457, gb_AA597517 and gb_AA597420 come from this gene. [Arabidopsis thaliana]'		

Seq. No.	45363	Seq. ID	OJ000221_24.0315.C4
Gene No.	95909	Strand	+
Start	171	End	9022
Name	OJ000221_24.0315.C4.o1.np	Method	AAT/NAP
Start	5209	End	6766
GI	5882728	Score	138
Exons	5209..5530, 6159..6406, 6503..6579, 6676..6766		
GI Descrip.	(AC008263) ESTs gb T75898, gb R65457, gb AA597517 and gb AA597420 come from this gene. [Arabidopsis thaliana] gi 6646769 gb AAF21081.1 AC013258_19 (AC013258) unknown protein [Arabidopsis thaliana]		

Seq. No.	45363	Seq. ID	OJ000221_24.0315.C4
Gene No.	95910	Strand	+
Start	11453	End	12528
Name	OJ000221_24.0315.C4.o2.gs	Method	GENSCAN
Start	11453	End	12528
GI	none	Score	.94
Exons	11453..11609, 12257..12528		

Seq. No.	45363	Seq. ID	OJ000221_24.0315.C4
Gene No.	95911	Strand	+
Start	14953	End	20128
Name	OJ000221_24.0315.C4.o2.np	Method	AAT/NAP
Start	14935	End	19485
GI	4587549	Score	1005
Exons	14935..15076, 16291..16352, 16866..16968, 17105..17181, 17276..17337, 17429..17516, 17788..17863, 17951..17981, 18096..18212, 18733..18818, 18932..19105, 19216..19485		
GI Descrip.	(AC006577) Similar to gb U55861 RNA binding protein nucleolysin (TIAR) from Mus musculus and contains several PF 00076 RNA recognition motif domains. ESTs gb T21032 and gb T44127 come from this gene. [Arabidopsis t...		

Seq. No.	45363	Seq. ID	OJ000221_24.0315.C4
Gene No.	95911	Strand	+
Start	14953	End	20128
Name	OJ000221_24.0315.C4.o3.gs	Method	GENSCAN
Start	14953	End	20128
GI	none	Score	.82
Exons	14953..15161, 16866..16968, 17105..17181, 17788..17863, 17951..17981, 18096..18212, 18733..18818, 18932..19105, 19287..19413, 19794..20128		

Seq. No.	45363	Seq. ID	OJ000221_24.0315.C4
Gene No.	95912	Strand	+
Start	20702	End	21506
Name	OJ000221_24.0315.C4.o4.gs	Method	GENSCAN
Start	20702	End	21506

GI none  
Exons 20702..20902, 21090..21506

Score .99

Seq. No. 45363 Seq. ID OJ000221\_24.0315.C4  
Gene No. 95913 Strand -  
Start 15388 End 21521  
Name OJ000221\_24.0315.C4.o1.tm Method TBLASTX:Maize  
Start 5241 End 7154  
GI none Score 97  
Exons 5241..5300, 5242..5304, 5523..5630, 5533..5601, 6164..6274,  
6170..6268, 6183..6275, 6336..6356, 6337..6396, 6376..6411,  
6487..6579, 6521..6580, 6671..6775, 6676..6780, 6677..6778,  
6922..6969, 7008..7043, 7063..7116, 7125..7154

Seq. No. 45363 Seq. ID OJ000221\_24.0315.C4  
Gene No. 95913 Strand -  
Start 15388 End 21521  
Name OJ000221\_24.0315.C4.o3.np Method AAT/NAP  
Start 15388 End 21467  
GI 3153821 Score 53  
Exons 15388..15448, 20798..20873, 21252..21467  
GI Descrip. (AF062655) plenty-of-prolines-101; POP101; SH3-philo-protein  
[Mus musculus]

Seq. No. 45363 Seq. ID OJ000221\_24.0315.C4  
Gene No. 95913 Strand -  
Start 15388 End 21521  
Name OJ000221\_24.0315.C4.o2.tm Method TBLASTX:Maize  
Start 16287 End 19484  
GI none Score 107  
Exons 16287..16358, 16288..16353, 16290..16355, 16866..16976,  
16867..16986, 16893..16976, 17102..17182, 17103..17183,  
17104..17184, 17104..17184, 17277..17339, 17279..17338,  
17283..17399, 17431..17517, 17431..17529, 17433..17540,  
17786..17863, 17788..17865, 17791..17865, 17932..17997,  
17948..17983, 18094..18159, 18095..18166, 18095..18157,  
18729..18827, 18729..18818, 18929..19129, 18930..19073,  
18952..19101, 19009..19089, 19010..19105, 19016..19108,  
19209..19298, 19212..19232, 19235..19285, 19394..19444,  
19413..19484

Seq. No. 45363 Seq. ID OJ000221\_24.0315.C4  
Gene No. 95913 Strand -  
Start 15388 End 21521  
Name OJ000221\_24.0315.C4.o1.tc Method TBLASTX:Cress  
Start 16288 End 19347  
GI none Score 93  
Exons 16288..16353, 16290..16355, 16866..16961, 16867..16986,  
16867..16968, 17102..17182, 17104..17178, 17277..17336,  
17279..17332, 17425..17517, 17426..17515, 17431..17529,  
17433..17540, 17773..17865, 17774..17863, 17789..17872,  
17791..17865, 17946..17987, 17948..17983, 18094..18159,  
18095..18172, 18729..18821, 18745..18831, 18779..18826,  
18929..19075, 18952..19071, 19016..19108, 19210..19233,  
19300..19347

Seq. No. 45363 Seq. ID OJ000221\_24.0315.C4

Gene No.	95913	Strand	-
Start	15388	End	21521
Name	OJ000221_24.0315.C4.o1.ts	Method	TBLASTX:Soybean
Start	16288	End	19341
GI	none	Score	96
Exons	16288..16353, 16290..16358, 16308..16355, 16867..16986, 17102..17182, 17104..17184, 17104..17178, 17277..17351, 17278..17379, 17279..17338, 17431..17517, 17436..17516, 17786..17863, 17788..17865, 17791..17865, 17948..17983, 18091..18147, 18095..18166, 18095..18166, 18648..18833, 18729..18821, 18761..18826, 18929..19087, 18949..19074, 19016..19108, 19210..19233, 19300..19341		

Seq. No.	45363	Seq. ID	OJ000221_24.0315.C4
Gene No.	95913	Strand	-
Start	15388	End	21521
Name	OJ000221_24.0315.C4.o2.tw	Method	TBLASTX:Wheat
Start	17112	End	17508
GI	none	Score	58
Exons	17112..17180, 17114..17182, 17134..17181, 17271..17375, 17277..17351, 17278..17376, 17427..17507, 17428..17508		

Seq. No.	45363	Seq. ID	OJ000221_24.0315.C4
Gene No.	95913	Strand	-
Start	15388	End	21521
Name	OJ000221_24.0315.C4.o1.tw	Method	TBLASTX:Wheat
Start	17821	End	19105
GI	none	Score	74
Exons	17821..17865, 17822..17863, 17932..17982, 17940..17981, 18094..18159, 18095..18205, 18149..18217, 18170..18217, 18729..18821, 18730..18834, 18905..18982, 18929..18982, 18931..18984, 18952..18984, 19010..19105		

Seq. No.	45363	Seq. ID	OJ000221_24.0315.C4
Gene No.	95913	Strand	-
Start	15388	End	21521
Name	OJ000221_24.0315.C4.o2.gp	Method	AAT/GAP
Start	20563	End	20883
GI	none	Score	576
Exons	20563..20883		

Seq. No.	45363	Seq. ID	OJ000221_24.0315.C4
Gene No.	95913	Strand	-
Start	15388	End	21521
Name	OJ000221_24.0315.C4.o3.gp	Method	AAT/GAP
Start	21088	End	21521
GI	none	Score	822
Exons	21088..21521		

Seq. No.	45364	Seq. ID	OJ000221_24.0315.C6
Gene No.	95914	Strand	+
Start	205	End	408
Name	OJ000221_24.0315.C6.o1.gs	Method	GENSCAN
Start	205	End	408
GI	none	Score	.94
Exons	205..408		

Seq. No.	45364	Seq. ID	OJ000221_24.0315.C6
Gene No.	95915	Strand	+
Start	1980	End	6774
Name	OJ000221_24.0315.C6.o3.np	Method	AAT/NAP
Start	1980	End	4909
GI	7487328	Score	77
Exons	1980..2067, 3621..3713, 4892..4909		
GI Descrip.	hypothetical protein T22A6.300 - Arabidopsis thaliana gi 5051789 emb CAB45082.1  (AL078637) putative protein [Arabidopsis thaliana] gi 7269297 emb CAB79357.1  (AL161561) putative protein [Arabidopsis thaliana]		

Seq. No.	45364	Seq. ID	OJ000221_24.0315.C6
Gene No.	95915	Strand	+
Start	1980	End	6774
Name	OJ000221_24.0315.C6.o4.np	Method	AAT/NAP
Start	2778	End	5675
GI	7485859	Score	881
Exons	2778..2804, 3975..5675		
GI Descrip.	hypothetical protein F20D10.300 - Arabidopsis thaliana gi 4467124 emb CAB37558.1  (AL035538) hypothetical protein [Arabidopsis thaliana] gi 7270802 emb CAB80483.1  (AL161593) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45364	Seq. ID	OJ000221_24.0315.C6
Gene No.	95915	Strand	+
Start	1980	End	6774
Name	OJ000221_24.0315.C6.o3.gs	Method	GENSCAN
Start	3935	End	6774
GI	none	Score	.67
Exons	3935..5691, 5868..5923, 6674..6774		

Seq. No.	45364	Seq. ID	OJ000221_24.0315.C6
Gene No.	95916	Strand	-
Start	100	End	3782
Name	OJ000221_24.0315.C6.o1.np	Method	AAT/NAP
Start	100	End	1408
GI	5777617	Score	72
Exons	100..197, 1388..1408		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	45364	Seq. ID	OJ000221_24.0315.C6
Gene No.	95916	Strand	-
Start	100	End	3782
Name	OJ000221_24.0315.C6.o1.gp	Method	AAT/GAP
Start	390	End	2798
GI	59493_1.R1084	Score	715
Exons	390..498, 840..998, 2556..2631, 2729..2798		
GI Descrip.	'5453930/ref NP_006224.1 pPOLR2I  4.0e-25 polymerase (RNA) II (DNA directed) polypeptide I (14.5kD) >gi_548702_sp_P36954_RPB9_HUMAN DNA-DIRECTED RNA POLYMERASE II 14.5 KD POLYPEPTIDE (RPB9) (RPB14.5) >gi_543001_pir_S41621 DNA-directed RNA polymerase (EC 2.7.7.6) II 14.5K chain - human >gi_397150_emb_CAA80649.2(Z23102) RNA Polymerase II subunit 14.5 kD [Homo sapiens] >gi_1905901 (AD0'		

Seq. No.	45364	Seq. ID	OJ000221_24.0315.C6
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Gene No.	95916	Strand	-
Start	100	End	3782
Name	OJ000221_24.0315.C6.o2.np	Method	AAT/NAP
Start	421	End	2787
GI	5453930	Score	223
Exons	421..501, 840..998, 2556..2631, 2729..2787		
GI Descrip.	polymerase (RNA) II (DNA directed) polypeptide I (14.5kD) gi 548702 sp P36954 RPB9 HUMAN DNA-DIRECTED RNA POLYMERASE II 14.5 KD POLYPEPTIDE (RPB9) (RPB14.5) gi 543001 pir  S41621 DNA-directed RNA polymerase (EC 2.7.7.6) II 14.5K chain - human gi 397150 emb CAA80649  (Z23102) RNA Polymerase II subunit 14.5 kD [Homo sapiens] gi 1905901 (AD001527) HUMAN DNA-DIRECTED RNA		

Seq. No.	45364	Seq. ID	OJ000221_24.0315.C6
Gene No.	95916	Strand	-
Start	100	End	3782
Name	OJ000221_24.0315.C6.o2.gs	Method	GENSCAN
Start	2169	End	3782
GI	none	Score	.76
Exons	2169..2225, 2508..2631, 2729..2860, 3028..3782		

Seq. No.	45364	Seq. ID	OJ000221_24.0315.C6
Gene No.	95917	Strand	-
Start	7444	End	8869
Name	OJ000221_24.0315.C6.o4.tm	Method	TBLASTX:Maize
Start	411	End	2760
GI	none	Score	80
Exons	411..500, 418..501, 419..505, 838..999, 839..1000, 839..1000, 840..1007, 840..1001, 2556..2633, 2556..2630, 2707..2760		

Seq. No.	45364	Seq. ID	OJ000221_24.0315.C6
Gene No.	95917	Strand	-
Start	7444	End	8869
Name	OJ000221_24.0315.C6.o2.tw	Method	TBLASTX:Wheat
Start	414	End	2760
GI	none	Score	66
Exons	414..476, 416..475, 418..501, 419..505, 838..999, 840..1007, 840..1001, 2556..2633, 2556..2627, 2731..2760		

Seq. No.	45364	Seq. ID	OJ000221_24.0315.C6
Gene No.	95917	Strand	-
Start	7444	End	8869
Name	OJ000221_24.0315.C6.o5.tm	Method	TBLASTX:Maize
Start	3995	End	4270
GI	none	Score	257
Exons	3995..4270, 3999..4145, 4054..4266, 4176..4268		

Seq. No.	45364	Seq. ID	OJ000221_24.0315.C6
Gene No.	95917	Strand	-
Start	7444	End	8869
Name	OJ000221_24.0315.C6.o3.tm	Method	TBLASTX:Maize
Start	4343	End	4597
GI	none	Score	361
Exons	4343..4597, 4346..4462, 4378..4596		

Seq. No.	45364	Seq. ID	OJ000221_24.0315.C6
Gene No.	95917	Strand	-

Start	7444	End	8869
Name	OJ000221_24.0315.C6.o1.tc	Method	TBLASTX:Cress
Start	4532	End	4876
GI	none	Score	205
Exons	4532..4876		
Seq. No.	45364	Seq. ID	OJ000221_24.0315.C6
Gene No.	95917	Strand	-
Start	7444	End	8869
Name	OJ000221_24.0315.C6.o6.tm	Method	TBLASTX:Maize
Start	4597	End	4771
GI	none	Score	205
Exons	4597..4770, 4598..4771		
Seq. No.	45364	Seq. ID	OJ000221_24.0315.C6
Gene No.	95917	Strand	-
Start	7444	End	8869
Name	OJ000221_24.0315.C6.o1.ts	Method	TBLASTX:Soybean
Start	4619	End	5332
GI	none	Score	382
Exons	4619..5173, 4621..4941, 5219..5332		
Seq. No.	45364	Seq. ID	OJ000221_24.0315.C6
Gene No.	95917	Strand	-
Start	7444	End	8869
Name	OJ000221_24.0315.C6.o1.tm	Method	TBLASTX:Maize
Start	4772	End	5203
GI	none	Score	699
Exons	4772..5203, 4774..5202		
Seq. No.	45364	Seq. ID	OJ000221_24.0315.C6
Gene No.	95917	Strand	-
Start	7444	End	8869
Name	OJ000221_24.0315.C6.o1.tw	Method	TBLASTX:Wheat
Start	4793	End	5224
GI	none	Score	232
Exons	4793..5224		
Seq. No.	45364	Seq. ID	OJ000221_24.0315.C6
Gene No.	95917	Strand	-
Start	7444	End	8869
Name	OJ000221_24.0315.C6.o2.tm	Method	TBLASTX:Maize
Start	5204	End	5647
GI	none	Score	408
Exons	5204..5647, 5351..5617, 5353..5646		
Seq. No.	45364	Seq. ID	OJ000221_24.0315.C6
Gene No.	95917	Strand	-
Start	7444	End	8869
Name	OJ000221_24.0315.C6.o2.tc	Method	TBLASTX:Cress
Start	5351	End	5676
GI	none	Score	189
Exons	5351..5671, 5467..5676		
Seq. No.	45364	Seq. ID	OJ000221_24.0315.C6
Gene No.	95917	Strand	-
Start	7444	End	8869

Name	OJ000221_24.0315.C6.o5.np	Method	AAT/NAP
Start	7444	End	8869
GI	5852084	Score	97
Exons	7444..7527, 8841..8869		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	45365	Seq. ID	OJ000221_21.0314.C3
Gene No.	95918	Strand	+
Start	512	End	707
Name	OJ000221_21.0314.C3.o1.gs	Method	GENSCAN
Start	512	End	707
GI	none	Score	.7
Exons	512..707		

Seq. No.	45366	Seq. ID	OJ000221_21.0314.C7
Gene No.	95919	Strand	+
Start	1	End	996
Name	OJ000221_21.0314.C7.o1.np	Method	AAT/NAP
Start	1	End	996
GI	7444418	Score	838
Exons	1..996		
GI Descrip.	hypothetical protein T20D16.4 - Arabidopsis thaliana gi 2642431 gb AAB87099.1  (AC002391) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	45366	Seq. ID	OJ000221_21.0314.C7
Gene No.	95919	Strand	+
Start	1	End	996
Name	OJ000221_21.0314.C7.o1.tc	Method	TBLASTX:Cress
Start	4	End	263
GI	none	Score	82
Exons	4..66, 57..263, 63..254, 71..262		

Seq. No.	45366	Seq. ID	OJ000221_21.0314.C7
Gene No.	95919	Strand	+
Start	1	End	996
Name	OJ000221_21.0314.C7.o1.tw	Method	TBLASTX:Wheat
Start	63	End	590
GI	none	Score	256
Exons	63..389, 101..157, 203..334, 381..590, 428..553		

Seq. No.	45366	Seq. ID	OJ000221_21.0314.C7
Gene No.	95919	Strand	+
Start	1	End	996
Name	OJ000221_21.0314.C7.o2.ts	Method	TBLASTX:Soybean
Start	63	End	364
GI	5509260	Score	279
Exons	63..359, 68..136, 203..364		
GI Descrip.	-		

Seq. No.	45366	Seq. ID	OJ000221_21.0314.C7
Gene No.	95919	Strand	+
Start	1	End	996
Name	OJ000221_21.0314.C7.o1.gs	Method	GENSCAN
Start	141	End	812
GI	none	Score	.53
Exons	141..812		

Seq. No. 45366  
 Gene No. 95919  
 Start 1  
 Name OJ000221\_21.0314.C7.o1.tm  
 Start 183  
 GI none  
 Exons 183..623, 296..358

Seq. ID OJ000221\_21.0314.C7  
 Strand +  
 End 996  
 Method TBLASTX:Maize  
 End 623  
 Score 326

Seq. No. 45366  
 Gene No. 95919  
 Start 1  
 Name OJ000221\_21.0314.C7.o2.tc  
 Start 408  
 GI none  
 Exons 408..686, 455..682

Seq. ID OJ000221\_21.0314.C7  
 Strand +  
 End 996  
 Method TBLASTX:Cress  
 End 686  
 Score 206

Seq. No. 45366  
 Gene No. 95919  
 Start 1  
 Name OJ000221\_21.0314.C7.o1.ts  
 Start 548  
 GI none  
 Exons 548..724, 549..725, 737..817,

Seq. ID OJ000221\_21.0314.C7  
 Strand +  
 End 996  
 Method TBLASTX:Soybean  
 End 980  
 Score 181  
 738..980, 864..980

Seq. No. 45366  
 Gene No. 95919  
 Start 1  
 Name OJ000221\_21.0314.C7.o2.tw  
 Start 600  
 GI none  
 Exons 600..719, 740..871, 741..986, 942..977

Seq. ID OJ000221\_21.0314.C7  
 Strand +  
 End 996  
 Method TBLASTX:Wheat  
 End 986  
 Score 106

Seq. No. 45366  
 Gene No. 95919  
 Start 1  
 Name OJ000221\_21.0314.C7.o2.tm  
 Start 732  
 GI none  
 Exons 732..995, 830..943

Seq. ID OJ000221\_21.0314.C7  
 Strand +  
 End 996  
 Method TBLASTX:Maize  
 End 995  
 Score 233

Seq. No. 45367  
 Gene No. 95920  
 Start 1  
 Name OJ000221\_21.0314.C8.o1.np  
 Start 1  
 GI 2961349  
 Exons 1..306

Seq. ID OJ000221\_21.0314.C8  
 Strand +  
 End 306  
 Method AAT/NAP  
 End 306  
 Score 228

GI Descrip. (AL022140) LTR retrotransposon like protein [Arabidopsis thaliana]

Seq. No. 45367  
 Gene No. 95921  
 Start 409  
 Name OJ000221\_21.0314.C8.o1.gs  
 Start 409  
 GI none

Seq. ID OJ000221\_21.0314.C8  
 Strand +  
 End 4309  
 Method GENSCAN  
 End 4309  
 Score .57



Exons 409..487, 932..946, 4086..4309

Seq. No.	45367	Seq. ID	OJ000221_21.0314.C8
Gene No.	95922	Strand	-
Start	4984	End	5199
Name	OJ000221_21.0314.C8.o1.ts	Method	TBLASTX:Soybean
Start	1	End	321
GI	none	Score	219
Exons	1..150, 3..167, 40..321, 235..321		

Seq. No.	45367	Seq. ID	OJ000221_21.0314.C8
Gene No.	95922	Strand	-
Start	4984	End	5199
Name	OJ000221_21.0314.C8.o1.tm	Method	TBLASTX:Maize
Start	12	End	322
GI	none	Score	298
Exons	12..320, 49..321, 224..322		

Seq. No.	45367	Seq. ID	OJ000221_21.0314.C8
Gene No.	95922	Strand	-
Start	4984	End	5199
Name	OJ000221_21.0314.C8.o2.gs	Method	GENSCAN
Start	4984	End	5199
GI	none	Score	.77
Exons	4984..5199		

Seq. No.	45368	Seq. ID	OJ000221_21.0314.C9
Gene No.	95923	Strand	+
Start	5298	End	8397
Name	OJ000221_21.0314.C9.o1.gp	Method	AAT/GAP
Start	5298	End	8397
GI	57713_5.R1084	Score	1313
Exons	5298..5403, 5490..5738, 5829..5928, 7296..7361, 8150..8397		
GI Descrip.	'6015116/sp 082653 ERG ARATH 3.0e-34 GTP-BINDING PROTEIN ERG >gi_3676071_emb_CAA76979_ (Y17969) ERG protein [Arabidopsis thaliana]'		

Seq. No.	45368	Seq. ID	OJ000221_21.0314.C9
Gene No.	95924	Strand	-
Start	1	End	2352
Name	OJ000221_21.0314.C9.o1.np	Method	AAT/NAP
Start	1	End	2352
GI	7340881	Score	449
Exons	1..41, 1429..1729, 1810..1901, 1994..2117, 2264..2352		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	45369	Seq. ID	OJ000221_21.0314.C10
Gene No.	95925	Strand	+
Start	1	End	8863
Name	OJ000221_21.0314.C10.o1.np	Method	AAT/NAP
Start	1	End	1704
GI	6063554	Score	142
Exons	1..72, 206..433, 913..943, 1558..1704		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	45369	Seq. ID	OJ000221_21.0314.C10
Gene No.	95925	Strand	+
Start	1	End	8863
Name	OJ000221_21.0314.C10.o1.gs	Method	GENSCAN
Start	185	End	8863
GI	none	Score	.61
Exons	185..436, 1558..1589, 2617..2703, 2887..3127, 3887..3914, 4250..4362, 4422..4500, 6258..6287, 8253..8502, 8748..8863		

Seq. No.	45369	Seq. ID	OJ000221_21.0314.C10
Gene No.	95925	Strand	+
Start	1	End	8863
Name	OJ000221_21.0314.C10.o2.np	Method	AAT/NAP
Start	2446	End	2967
GI	2129618	Score	176
Exons	2446..2967		
GI Descrip.	hypothetical protein 1 - Arabidopsis thaliana retrotransposon Athila gi 806535 emb CAA57397  (X81801) Athila ORF 1 [Arabidopsis thaliana]		

Seq. No.	45369	Seq. ID	OJ000221_21.0314.C10
Gene No.	95926	Strand	-
Start	4280	End	5737
Name	OJ000221_21.0314.C10.o3.np	Method	AAT/NAP
Start	4280	End	5737
GI	5852180	Score	411
Exons	4280..4654, 5653..5737		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	45369	Seq. ID	OJ000221_21.0314.C10
Gene No.	95926	Strand	-
Start	4280	End	5737
Name	OJ000221_21.0314.C10.o1.gp	Method	AAT/GAP
Start	4820	End	4890
GI	uC-osroM202024h08a1	Score	82
Exons	4820..4890		
GI Descrip.	'5852170/emb AL117265.1 OST17804 5.0e-84 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	45369	Seq. ID	OJ000221_21.0314.C10
Gene No.	95926	Strand	-
Start	4280	End	5737
Name	OJ000221_21.0314.C10.o2.gp	Method	AAT/GAP
Start	5031	End	5552
GI	uC-osflM202048c12b1	Score	826
Exons	5031..5552		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 2.0e-16 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	45369	Seq. ID	OJ000221_21.0314.C10
Gene No.	95927	Strand	-
Start	5653	End	5737
Name	OJ000221_21.0314.C10.o4.np	Method	AAT/NAP
Start	5653	End	5737
GI	5852180	Score	69
Exons	5653..5737		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	45370	Seq. ID	OJ000221_21.0314.C11
Gene No.	95928	Strand	+
Start	1194	End	1695
Name	OJ000221_21.0314.C11.o1.gs	Method	GENSCAN
Start	1194	End	1695
GI	none	Score	.68
Exons	1194..1368, 1622..1695		
Seq. No.	45370	Seq. ID	OJ000221_21.0314.C11
Gene No.	95929	Strand	+
Start	4330	End	4713
Name	OJ000221_21.0314.C11.o1.gp	Method	AAT/GAP
Start	4330	End	4713
GI	uC-osflcyp033a04b1	Score	665
Exons	4330..4713		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	45370	Seq. ID	OJ000221_21.0314.C11
Gene No.	95930	Strand	-
Start	1	End	6710
Name	OJ000221_21.0314.C11.o1.np	Method	AAT/NAP
Start	1	End	6710
GI	5852180	Score	629
Exons	1..26, 2236..2306, 3009..3420, 3472..3579, 4562..4673, 6671..6710		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		
Seq. No.	45370	Seq. ID	OJ000221_21.0314.C11
Gene No.	95930	Strand	-
Start	1	End	6710
Name	OJ000221_21.0314.C11.o2.gs	Method	GENSCAN
Start	2957	End	6328
GI	none	Score	.55
Exons	2957..3579, 6121..6328		
Seq. No.	45371	Seq. ID	OJ000221_21.0314.C12
Gene No.	95931	Strand	+
Start	834	End	2123
Name	OJ000221_21.0314.C12.o1.gs	Method	GENSCAN
Start	834	End	2123
GI	none	Score	.63
Exons	834..2123		
Seq. No.	45372	Seq. ID	OJ000221_21.0314.C15
Gene No.	95932	Strand	-
Start	169	End	3525
Name	OJ000221_21.0314.C15.o1.gs	Method	GENSCAN
Start	169	End	3504
GI	none	Score	.6
Exons	169..248, 1789..2009, 2867..2973, 3080..3247, 3460..3504		
Seq. No.	45372	Seq. ID	OJ000221_21.0314.C15
Gene No.	95932	Strand	-
Start	169	End	3525
Name	OJ000221_21.0314.C15.o1.np	Method	AAT/NAP

Start	2809	End	3525
GI	7488857	Score	250
Exons	2809..3525		
GI Descrip.	hypothetical protein - fava bean (fragment) gi 2522230 dbj BAA22788.1  (AB007467) retrotransposon-like gene; the first amino acid was determined to be leucine [Vicia faba]		

Seq. No.	45373	Seq. ID	OJ000221_21.0314.C16
Gene No.	95933	Strand	-
Start	46	End	882
Name	OJ000221_21.0314.C16.o1.gs	Method	GENSCAN
Start	46	End	882
GI	none	Score	.7
Exons	46..432, 601..882		

Seq. No.	45373	Seq. ID	OJ000221_21.0314.C16
Gene No.	95933	Strand	-
Start	46	End	882
Name	OJ000221_21.0314.C16.o1.tc	Method	TBLASTX:Cress
Start	208	End	516
GI	none	Score	56
Exons	208..516, 227..409, 440..502		

Seq. No.	45373	Seq. ID	OJ000221_21.0314.C16
Gene No.	95933	Strand	-
Start	46	End	882
Name	OJ000221_21.0314.C16.o1.ts	Method	TBLASTX:Soybean
Start	253	End	663
GI	none	Score	75
Exons	253..528, 559..663		

Seq. No.	45373	Seq. ID	OJ000221_21.0314.C16
Gene No.	95933	Strand	-
Start	46	End	882
Name	OJ000221_21.0314.C16.o1.tw	Method	TBLASTX:Wheat
Start	268	End	663
GI	none	Score	96
Exons	268..342, 316..528, 547..663		

Seq. No.	45374	Seq. ID	OJ000221_21.0314.C17
Gene No.	95934	Strand	+
Start	361	End	540
Name	OJ000221_21.0314.C17.o1.gs	Method	GENSCAN
Start	361	End	540
GI	none	Score	.97
Exons	361..540		

Seq. No.	45374	Seq. ID	OJ000221_21.0314.C17
Gene No.	95935	Strand	+
Start	2005	End	3296
Name	OJ000221_21.0314.C17.o2.gs	Method	GENSCAN
Start	2005	End	3296
GI	none	Score	.44
Exons	2005..2110, 3172..3296		

Seq. No.	45374	Seq. ID	OJ000221_21.0314.C17
Gene No.	95936	Strand	-

Start	3783	End	3880
Name	OJ000221_21.0314.C17.o3.gs	Method	GENSCAN
Start	3783	End	3880
GI	none	Score	.85
Exons	3783..3880		

Seq. No.	45375	Seq. ID	OJ000221_21.0314.C18
Gene No.	95937	Strand	+
Start	1371	End	1578
Name	OJ000221_21.0314.C18.o1.np	Method	AAT/NAP
Start	1371	End	1578
GI	7523686	Score	102
Exons	1371..1578		
GI Descrip.	(AC009526) Similar to Athila ORF 1 [Arabidopsis thaliana]		

Seq. No.	45375	Seq. ID	OJ000221_21.0314.C18
Gene No.	95938	Strand	-
Start	889	End	1476
Name	OJ000221_21.0314.C18.o1.gs	Method	GENSCAN
Start	889	End	1476
GI	none	Score	.6
Exons	889..964, 1102..1187, 1471..1476		

Seq. No.	45376	Seq. ID	OJ000221_21.0314.C19
Gene No.	95939	Strand	+
Start	61	End	1308
Name	OJ000221_21.0314.C19.o1.gs	Method	GENSCAN
Start	61	End	1308
GI	none	Score	.51
Exons	61..273, 372..441, 518..749, 1130..1190, 1284..1308		

Seq. No.	45377	Seq. ID	OJ000221_21.0314.C20
Gene No.	95940	Strand	+
Start	411	End	1676
Name	OJ000221_21.0314.C20.o1.gs	Method	GENSCAN
Start	411	End	1676
GI	none	Score	.91
Exons	411..523, 1274..1343, 1566..1676		

Seq. No.	45378	Seq. ID	OJ000221_21.0314.C21
Gene No.	95941	Strand	+
Start	366	End	482
Name	OJ000221_21.0314.C21.o1.gs	Method	GENSCAN
Start	366	End	482
GI	none	Score	.95
Exons	366..482		

Seq. No.	45379	Seq. ID	OJ000221_21.0314.C22
Gene No.	95942	Strand	-
Start	16	End	3488
Name	OJ000221_21.0314.C22.o1.gs	Method	GENSCAN
Start	16	End	3488
GI	none	Score	.43
Exons	16..156, 268..401, 687..903, 1149..1468, 2495..2661, 3454..3488		

Seq. No.	45379	Seq. ID	OJ000221_21.0314.C22
Gene No.	95943	Strand	-

Start	3648	End	4854
Name	OJ000221_21.0314.C22.o1.np	Method	AAT/NAP
Start	3648	End	4854
GI	6063554	Score	137
Exons	3648..3821, 4730..4854		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	45379	Seq. ID	OJ000221_21.0314.C22
Gene No.	95943	Strand	-
Start	3648	End	4854
Name	OJ000221_21.0314.C22.o2.np	Method	AAT/NAP
Start	4376	End	4854
GI	5852178	Score	134
Exons	4376..4470, 4759..4854		
GI Descrip.	(AL117265) zhb0008.1 [Oryza sativa]		

Seq. No.	45380	Seq. ID	OJ000221_21.0314.C23
Gene No.	95944	Strand	+
Start	1	End	1624
Name	OJ000221_21.0314.C23.o1.np	Method	AAT/NAP
Start	1	End	1624
GI	5042463	Score	72
Exons	1..59, 538..807, 1543..1624		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	45380	Seq. ID	OJ000221_21.0314.C23
Gene No.	95945	Strand	+
Start	2239	End	2854
Name	OJ000221_21.0314.C23.o2.np	Method	AAT/NAP
Start	2239	End	2854
GI	4417306	Score	264
Exons	2239..2854		
GI Descrip.	(AC006446) putative Athila retroelement ORF1 protein [Arabidopsis thaliana]		

Seq. No.	45380	Seq. ID	OJ000221_21.0314.C23
Gene No.	95946	Strand	-
Start	595	End	2848
Name	OJ000221_21.0314.C23.o1.gs	Method	GENSCAN
Start	595	End	2747
GI	none	Score	.77
Exons	595..725, 2162..2294, 2361..2516, 2628..2747		

Seq. No.	45380	Seq. ID	OJ000221_21.0314.C23
Gene No.	95946	Strand	-
Start	595	End	2848
Name	OJ000221_21.0314.C23.o1.tw	Method	TBLASTX:Wheat
Start	2502	End	2848
GI	none	Score	93
Exons	2502..2618, 2634..2696, 2684..2848		

Seq. No.	45381	Seq. ID	OJ000221_21.0314.C24
Gene No.	95947	Strand	+
Start	110	End	3296
Name	OJ000221_21.0314.C24.o1.gs	Method	GENSCAN

Start	110	End	3296
GI	none	Score	.58
Exons	110..181, 339..1187, 1513..1562, 1946..2949, 3016..3296		

Seq. No.	45381	Seq. ID	OJ000221_21.0314.C24
Gene No.	95947	Strand	+
Start	110	End	3296
Name	OJ000221_21.0314.C24.o1.np	Method	AAT/NAP
Start	327	End	1034
GI	7488857	Score	286
Exons	327..1034		
GI Descrip.	hypothetical protein - fava bean (fragment) gi 2522230 dbj BAA22788.1  (AB007467) retrotransposon-like gene; the first amino acid was determined to be leucine [Vicia faba]		

Seq. No.	45381	Seq. ID	OJ000221_21.0314.C24
Gene No.	95948	Strand	-
Start	5001	End	5305
Name	OJ000221_21.0314.C24.o2.gs	Method	GENSCAN
Start	5001	End	5305
GI	none	Score	.54
Exons	5001..5305		

Seq. No.	45381	Seq. ID	OJ000221_21.0314.C24
Gene No.	95949	Strand	-
Start	6001	End	6428
Name	OJ000221_21.0314.C24.o2.np	Method	AAT/NAP
Start	6001	End	6428
GI	7340868	Score	186
Exons	6001..6428		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	45382	Seq. ID	OJ000221_21.0314.C25
Gene No.	95950	Strand	-
Start	521	End	1573
Name	OJ000221_21.0314.C25.o1.gs	Method	GENSCAN
Start	521	End	1573
GI	none	Score	.96
Exons	521..1573		

Seq. No.	45382	Seq. ID	OJ000221_21.0314.C25
Gene No.	95951	Strand	-
Start	3072	End	3825
Name	OJ000221_21.0314.C25.o2.gs	Method	GENSCAN
Start	3072	End	3825
GI	none	Score	.62
Exons	3072..3547, 3669..3825		

Seq. No.	45382	Seq. ID	OJ000221_21.0314.C25
Gene No.	95952	Strand	-
Start	4685	End	9448
Name	OJ000221_21.0314.C25.o1.np	Method	AAT/NAP
Start	4685	End	9448
GI	6466937	Score	1009
Exons	4685..4733, 5857..7467, 9341..9448		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	45382	Seq. ID	OJ000221_21.0314.C25
Gene No.	95952	Strand	-
Start	4685	End	9448
Name	OJ000221_21.0314.C25.o3.gs	Method	GENSCAN
Start	5500	End	8820
GI	none	Score	.47
Exons	5500..5728, 5770..6491, 6963..7226, 7748..7979, 8318..8820		

Seq. No.	45382	Seq. ID	OJ000221_21.0314.C25
Gene No.	95952	Strand	-
Start	4685	End	9448
Name	OJ000221_21.0314.C25.o2.tm	Method	TBLASTX:Maize
Start	5751	End	6362
GI	none	Score	81
Exons	5751..5816, 5761..5850, 5765..5857, 5767..5856, 5862..6002, 5950..6141, 6033..6362, 6184..6291		

Seq. No.	45382	Seq. ID	OJ000221_21.0314.C25
Gene No.	95952	Strand	-
Start	4685	End	9448
Name	OJ000221_21.0314.C25.o2.tw	Method	TBLASTX:Wheat
Start	5968	End	6335
GI	none	Score	148
Exons	5968..6282, 5994..6335, 6035..6283, 6042..6302		

Seq. No.	45382	Seq. ID	OJ000221_21.0314.C25
Gene No.	95952	Strand	-
Start	4685	End	9448
Name	OJ000221_21.0314.C25.o1.tm	Method	TBLASTX:Maize
Start	6402	End	7037
GI	none	Score	354
Exons	6402..7037, 6403..6936, 6453..7037		

Seq. No.	45382	Seq. ID	OJ000221_21.0314.C25
Gene No.	95952	Strand	-
Start	4685	End	9448
Name	OJ000221_21.0314.C25.o3.tw	Method	TBLASTX:Wheat
Start	6402	End	6782
GI	none	Score	70
Exons	6402..6782, 6403..6687		

Seq. No.	45382	Seq. ID	OJ000221_21.0314.C25
Gene No.	95952	Strand	-
Start	4685	End	9448
Name	OJ000221_21.0314.C25.o1.ts	Method	TBLASTX:Soybean
Start	6633	End	7017
GI	none	Score	91
Exons	6633..7016, 6721..7017		

Seq. No.	45382	Seq. ID	OJ000221_21.0314.C25
Gene No.	95952	Strand	-
Start	4685	End	9448
Name	OJ000221_21.0314.C25.o1.tw	Method	TBLASTX:Wheat
Start	6873	End	7304
GI	none	Score	131
Exons	6873..7304, 6877..7131, 6885..7259		



Seq. No.	45382	Seq. ID	OJ000221_21.0314.C25
Gene No.	95952	Strand	-
Start	4685	End	9448
Name	OJ000221_21.0314.C25.o3.tm	Method	TBLASTX:Maize
Start	7038	End	7446
GI	none	Score	88
Exons	7038..7169, 7038..7274, 7281..7445, 7317..7442, 7318..7446		

Seq. No.	45383	Seq. ID	OJ000221_21.0314.C26
Gene No.	95953	Strand	+
Start	7331	End	9024
Name	OJ000221_21.0314.C26.o1.np	Method	AAT/NAP
Start	7331	End	9024
GI	6907087	Score	753
Exons	7331..8383, 8923..9024		
GI Descrip.	(AP001129) ESTs C72771(E2215), AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	45383	Seq. ID	OJ000221_21.0314.C26
Gene No.	95954	Strand	+
Start	11374	End	11624
Name	OJ000221_21.0314.C26.o1.gp	Method	AAT/GAP
Start	11374	End	11624
GI	101153_1.R1084	Score	397
Exons	11374..11624		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-115 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:tl7804'		

Seq. No.	45383	Seq. ID	OJ000221_21.0314.C26
Gene No.	95955	Strand	+
Start	12015	End	12903
Name	OJ000221_21.0314.C26.o2.gp	Method	AAT/GAP
Start	12015	End	12902
GI	4107138	Score	1161
Exons	12015..12902		
GI Descrip.	5852170/emb AL117265.1 OST17804 1.0e-149 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:tl7804		

Seq. No.	45383	Seq. ID	OJ000221_21.0314.C26
Gene No.	95955	Strand	+
Start	12015	End	12903
Name	OJ000221_21.0314.C26.o3.gp	Method	AAT/GAP
Start	12015	End	12903
GI	4107138	Score	1159
Exons	12015..12903		
GI Descrip.	5852170/emb AL117265.1 OST17804 1.0e-149 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:tl7804		

Seq. No.	45383	Seq. ID	OJ000221_21.0314.C26
Gene No.	95955	Strand	+
Start	12015	End	12903
Name	OJ000221_21.0314.C26.o4.gp	Method	AAT/GAP
Start	12626	End	12900
GI	61605_1.R1084	Score	460
Exons	12626..12900		

GI Descrip. '5852170/emb|AL117265.1|OST17804 1.0e-137 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804'

Seq. No.	45383	Seq. ID	OJ000221_21.0314.C26
Gene No.	95956	Strand	-
Start	621	End	4422
Name	OJ000221_21.0314.C26.o1.gs	Method	GENSCAN
Start	621	End	4422
GI	none	Score	.92
Exons	621..686, 1613..1759, 2675..2767, 2792..2958, 3036..3615, 4291..4422		

Seq. No.	45383	Seq. ID	OJ000221_21.0314.C26
Gene No.	95957	Strand	-
Start	6641	End	8693
Name	OJ000221_21.0314.C26.o2.gs	Method	GENSCAN
Start	6641	End	8693
GI	none	Score	.59
Exons	6641..6686, 6753..7030, 7326..7439, 7959..8183, 8473..8567, 8597..8693		

Seq. No.	45383	Seq. ID	OJ000221_21.0314.C26
Gene No.	95958	Strand	-
Start	10309	End	15862
Name	OJ000221_21.0314.C26.o3.gs	Method	GENSCAN
Start	10309	End	15724
GI	none	Score	.54
Exons	10309..10961, 11965..12089, 12910..13046, 13143..13195, 14562..14671, 15240..15724		

Seq. No.	45383	Seq. ID	OJ000221_21.0314.C26
Gene No.	95958	Strand	-
Start	10309	End	15862
Name	OJ000221_21.0314.C26.o2.np	Method	AAT/NAP
Start	13705	End	15862
GI	4416302	Score	587
Exons	13705..13798, 15159..15862		
GI Descrip.	(AF105716) copia-type pol polyprotein [Zea mays]		

Seq. No.	45383	Seq. ID	OJ000221_21.0314.C26
Gene No.	95958	Strand	-
Start	10309	End	15862
Name	OJ000221_21.0314.C26.o1.tm	Method	TBLASTX:Maize
Start	15164	End	15566
GI	none	Score	99
Exons	15164..15565, 15165..15374, 15287..15559, 15429..15566		

Seq. No.	45383	Seq. ID	OJ000221_21.0314.C26
Gene No.	95958	Strand	-
Start	10309	End	15862
Name	OJ000221_21.0314.C26.o1.tw	Method	TBLASTX:Wheat
Start	15164	End	15559
GI	none	Score	104
Exons	15164..15385, 15410..15559		

Seq. No.	45383	Seq. ID	OJ000221_21.0314.C26
Gene No.	95958	Strand	-

Start	10309	End	15862
Name	OJ000221_21.0314.C26.o1.ts	Method	TBLASTX:Soybean
Start	15197	End	15598
GI	none	Score	66
Exons	15197..15598, 15198..15269, 15203..15373, 15435..15581		

Seq. No.	45383	Seq. ID	OJ000221_21.0314.C26
Gene No.	95958	Strand	-
Start	10309	End	15862
Name	OJ000221_21.0314.C26.o2.tm	Method	TBLASTX:Maize
Start	15567	End	15796
GI	none	Score	102
Exons	15567..15794, 15569..15796		

Seq. No.	45384	Seq. ID	OJ000221_20.0314.C1
Gene No.	95959	Strand	+
Start	1	End	1928
Name	OJ000221_20.0314.C1.o2.np	Method	AAT/NAP
Start	1	End	1928
GI	6016874	Score	304
Exons	1..24, 1649..1928		
GI Descrip.	(AP000570) ESTs C19143(E10020),D25076(R3116) correspond to a region of the predicted gene.; Similar to putative AC9 transposase. (P03010) [Oryza sativa]		

Seq. No.	45384	Seq. ID	OJ000221_20.0314.C1
Gene No.	95959	Strand	+
Start	1	End	1928
Name	OJ000221_20.0314.C1.o1.np	Method	AAT/NAP
Start	1406	End	1553
GI	6907084	Score	258
Exons	1406..1553		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	45385	Seq. ID	OJ000221_20.0314.C2
Gene No.	95960	Strand	+
Start	227	End	1952
Name	OJ000221_20.0314.C2.o1.gp	Method	AAT/GAP
Start	227	End	797
GI	82333_1.R1084	Score	397
Exons	227..293, 448..558, 676..797		
GI Descrip.	'99809/pir  S24950 5.0e-20 gene Bp10 protein - rape >gi_17795_emb_CAA47177_ (X66608) Bplo [Brassica napus]'		

Seq. No.	45385	Seq. ID	OJ000221_20.0314.C2
Gene No.	95960	Strand	+
Start	227	End	1952
Name	OJ000221_20.0314.C2.o1.np	Method	AAT/NAP
Start	313	End	1952
GI	6907083	Score	1338
Exons	313..558, 676..946, 1034..1172, 1451..1952		
GI Descrip.	(AP001129) ESTs AU082304(C61278),C93463(C50982) correspond to a region of the predicted gene.; Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F24A6, Pollen-specific protein precursor like. (AL035396) [Oryza sativa]		

Seq. No.	45385	Seq. ID	OJ000221_20.0314.C2
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Gene No.	95960	Strand	+	
Start	227	End	1952	
Name	OJ000221_20.0314.C2.o1.tc	Method	TBLASTX:Cress	
Start	446	End	954	
GI	none	Score	72	
Exons	446..562, 677..946, 679..948, 679..954			
Seq. No.	45385	Seq. ID	OJ000221_20.0314.C2	
Gene No.	95960	Strand	+	
Start	227	End	1952	
Name	OJ000221_20.0314.C2.o1.ts	Method	TBLASTX:Soybean	
Start	446	End	946	
GI	none	Score	80	
Exons	446..562, 653..946, 674..931, 679..939			
Seq. No.	45385	Seq. ID	OJ000221_20.0314.C2	
Gene No.	95960	Strand	+	
Start	227	End	1952	
Name	OJ000221_20.0314.C2.o1.gs	Method	GENSCAN	
Start	449	End	1667	
GI	none	Score	.94	
Exons	449..558, 676..946, 1034..1172, 1451..1667			
Seq. No.	45385	Seq. ID	OJ000221_20.0314.C2	
Gene No.	95960	Strand	+	
Start	227	End	1952	
Name	OJ000221_20.0314.C2.o2.tm	Method	TBLASTX:Maize	
Start	673	End	955	
GI	none	Score	424	
Exons	673..948, 674..955			
Seq. No.	45385	Seq. ID	OJ000221_20.0314.C2	
Gene No.	95960	Strand	+	
Start	227	End	1952	
Name	OJ000221_20.0314.C2.o1.tm	Method	TBLASTX:Maize	
Start	1032	End	1737	
GI	none	Score	112	
Exons	1032..1172, 1034..1174, 1037..1174, 1449..1736, 1449..1736, 1450..1737, 1450..1737			
Seq. No.	45385	Seq. ID	OJ000221_20.0314.C2	
Gene No.	95960	Strand	+	
Start	227	End	1952	
Name	OJ000221_20.0314.C2.o2.ts	Method	TBLASTX:Soybean	
Start	1034	End	1737	
GI	none	Score	207	
Exons	1034..1174, 1034..1165, 1084..1173, 1449..1736, 1450..1737			
Seq. No.	45385	Seq. ID	OJ000221_20.0314.C2	
Gene No.	95960	Strand	+	
Start	227	End	1952	
Name	OJ000221_20.0314.C2.o2.tc	Method	TBLASTX:Cress	
Start	1049	End	1731	
GI	none	Score	44	
Exons	1049..1075, 1127..1174, 1449..1631, 1450..1731, 1450..1719			
Seq. No.	45386	Seq. ID	OJ000221_20.0314.C6	

Gene No.	95961	Strand	-
Start	943	End	2716
Name	OJ000221_20.0314.C6.o1.np	Method	AAT/NAP
Start	943	End	2716
GI	6907101	Score	1516
Exons	943..1376, 2233..2716		
GI Descrip.	(AP001129) Similar to Chlorella vulgaris C-27 chloroplast DNA, cell division inhibitor MinD. (AB001684) [Oryza sativa]		

Seq. No.	45386	Seq. ID	OJ000221_20.0314.C6
Gene No.	95961	Strand	-
Start	943	End	2716
Name	OJ000221_20.0314.C6.o1.gs	Method	GENSCAN
Start	948	End	2716
GI	none	Score	.73
Exons	948..1376, 2233..2716		

Seq. No.	45386	Seq. ID	OJ000221_20.0314.C6
Gene No.	95962	Strand	-
Start	4039	End	5247
Name	OJ000221_20.0314.C6.o1.ts	Method	TBLASTX:Soybean
Start	923	End	1243
GI	none	Score	54
Exons	923..967, 982..1242, 983..1243		

Seq. No.	45386	Seq. ID	OJ000221_20.0314.C6
Gene No.	95962	Strand	-
Start	4039	End	5247
Name	OJ000221_20.0314.C6.o2.ts	Method	TBLASTX:Soybean
Start	1244	End	2449
GI	none	Score	145
Exons	1244..1393, 1246..1377, 2222..2278, 2279..2449, 2295..2351, 2384..2425		

Seq. No.	45386	Seq. ID	OJ000221_20.0314.C6
Gene No.	95962	Strand	-
Start	4039	End	5247
Name	OJ000221_20.0314.C6.o1.gp	Method	AAT/GAP
Start	3604	End	5247
GI	15929_1.R1084	Score	2244
Exons	3604..4202, 4711..5247		
GI Descrip.	'6069663/dbj BAA85439.1  5.0e-44 (AP000616) ESTs C72127(E1041),AU078646(E1041) correspond to a region of the predicted gene.; similar to Arabidopsis thaliana BAC F3D13; similar to Medicago truncatula MtN2 (AF069300) [Oryza sativa]'		

Seq. No.	45386	Seq. ID	OJ000221_20.0314.C6
Gene No.	95962	Strand	-
Start	4039	End	5247
Name	OJ000221_20.0314.C6.o1.tm	Method	TBLASTX:Maize
Start	3976	End	5246
GI	none	Score	69
Exons	3976..3993, 4039..4101, 4040..4120, 4077..4199, 4085..4210, 4112..4210, 4117..4221, 4117..4221, 4702..4881, 4709..4900, 4710..4889, 4715..4900, 4895..5113, 4895..5110, 4942..5118, 5126..5245, 5128..5244, 5139..5246		

Seq. No.	45386	Seq. ID	OJ000221_20.0314.C6
Gene No.	95962	Strand	-
Start	4039	End	5247
Name	OJ000221_20.0314.C6.o2.gs	Method	GENSCAN
Start	4039	End	5172
GI	none	Score	.83
Exons	4039..4202, 4711..4879, 5080..5172		

Seq. No.	45386	Seq. ID	OJ000221_20.0314.C6
Gene No.	95962	Strand	-
Start	4039	End	5247
Name	OJ000221_20.0314.C6.o2.np	Method	AAT/NAP
Start	4042	End	5247
GI	6907100	Score	1231
Exons	4042..4202, 4711..5247		
GI Descrip.	(AP001129) ESTs C99736(E21196),AU030984(E60527), AU030985(E60527) correspond to a region of the predicted gene.; Similar to Arabidopsis thaliana BAC IG002N01; A. thaliana cDNA T20924. (AF007269) [Oryza sativa]		

Seq. No.	45387	Seq. ID	OJ000221_20.0314.C7
Gene No.	95963	Strand	-
Start	1	End	2798
Name	OJ000221_20.0314.C7.o1.np	Method	AAT/NAP
Start	1	End	1384
GI	6907100	Score	972
Exons	1..56, 410..603, 646..784, 1079..1384		
GI Descrip.	(AP001129) ESTs C99736(E21196),AU030984(E60527), AU030985(E60527) correspond to a region of the predicted gene.; Similar to Arabidopsis thaliana BAC IG002N01; A. thaliana cDNA T20924. (AF007269) [Oryza sativa]		

Seq. No.	45387	Seq. ID	OJ000221_20.0314.C7
Gene No.	95963	Strand	-
Start	1	End	2798
Name	OJ000221_20.0314.C7.o2.np	Method	AAT/NAP
Start	1	End	2798
GI	7485234	Score	262
Exons	1..21, 1099..1590, 1686..1857, 2194..2584, 2724..2798		
GI Descrip.	hypothetical protein A_IG002N01.4 - Arabidopsis thaliana gi 2191145 gb AAB61032.1  (AF007269) A_IG002N01.4 gene product [Arabidopsis thaliana]		

Seq. No.	45387	Seq. ID	OJ000221_20.0314.C7
Gene No.	95963	Strand	-
Start	1	End	2798
Name	OJ000221_20.0314.C7.o1.gs	Method	GENSCAN
Start	404	End	2725
GI	none	Score	.83
Exons	404..784, 1079..1395, 1479..1584, 1683..1861, 2198..2394, 2483..2584, 2691..2725		

Seq. No.	45387	Seq. ID	OJ000221_20.0314.C7
Gene No.	95963	Strand	-
Start	1	End	2798
Name	OJ000221_20.0314.C7.o1.tm	Method	TBLASTX:Maize
Start	409	End	688

GI	none	Score	266
Exons	409..687, 410..688, 411..683		
Seq. No.	45387	Seq. ID	OJ000221_20.0314.C7
Gene No.	95963	Strand	-
Start	1	End	2798
Name	OJ000221_20.0314.C7.o1.gp	Method	AAT/GAP
Start	565	End	1714
GI	85719_1.R1084	Score	1238
Exons	565..784, 1079..1395, 1479..1584, 1683..1714		
GI Descrip.	'6002780/gb AAF00138.1 AF149806_5 2.0e-45 (AF149806) unknown [Oryza sativa]'		

Seq. No.	45387	Seq. ID	OJ000221_20.0314.C7
Gene No.	95963	Strand	-
Start	1	End	2798
Name	OJ000221_20.0314.C7.o2.tm	Method	TBLASTX:Maize
Start	1073	End	1321
GI	none	Score	124
Exons	1073..1231, 1077..1187, 1096..1215, 1178..1321, 1204..1308, 1220..1318		

Seq. No.	45387	Seq. ID	OJ000221_20.0314.C7
Gene No.	95963	Strand	-
Start	1	End	2798
Name	OJ000221_20.0314.C7.o1.ts	Method	TBLASTX:Soybean
Start	1100	End	1859
GI	none	Score	57
Exons	1100..1300, 1340..1393, 1346..1396, 1462..1608, 1480..1596, 1686..1736, 1767..1859, 1768..1830		

Seq. No.	45387	Seq. ID	OJ000221_20.0314.C7
Gene No.	95963	Strand	-
Start	1	End	2798
Name	OJ000221_20.0314.C7.o2.gp	Method	AAT/GAP
Start	2474	End	2798
GI	41505_1.R1084	Score	363
Exons	2474..2584, 2691..2798		
GI Descrip.	'6002775/gb AF149806.1 AF149806 1.0e-137 Oryza sativa hypothetical protein, fertilin alpha subunit, membrane protein homolog, and Myb-related protein genes, complete cds; and unknown gene'		

Seq. No.	45388	Seq. ID	OJ000221_20.0314.C8
Gene No.	95964	Strand	+
Start	769	End	2776
Name	OJ000221_20.0314.C8.o1.gs	Method	GENSCAN
Start	769	End	2776
GI	none	Score	.87
Exons	769..938, 1501..1558, 2756..2776		

Seq. No.	45388	Seq. ID	OJ000221_20.0314.C8
Gene No.	95964	Strand	+
Start	769	End	2776
Name	OJ000221_20.0314.C8.o1.np	Method	AAT/NAP
Start	769	End	1561
GI	6002779	Score	481

Exons 769..961, 1448..1561  
GI Descrip. (AF149806) Myb-related protein [Oryza sativa]

Seq. No. 45388 Seq. ID OJ000221\_20.0314.C8  
Gene No. 95965 Strand -  
Start 1 End 289  
Name OJ000221\_20.0314.C8.ol.gp Method AAT/GAP  
Start 1 End 289  
GI 41505\_1.R1084 Score 347  
Exons 1..58, 157..289  
GI Descrip. '6002775/gb|AF149806.1|AF149806 1.0e-137 Oryza sativa  
hypothetical protein, fertilin alpha subunit, membrane protein  
homolog, and Myb-related protein genes, complete cds; and  
unknown gene'

Seq. No. 45388 Seq. ID OJ000221\_20.0314.C8  
Gene No. 95966 Strand  
Start 841 End 2481  
Name OJ000221\_20.0314.C8.ol.tm Method TBLASTX:Maize  
Start 841 End 2481  
GI none Score 116  
Exons 841..939, 881..937, 1504..1557, 1505..1561, 2143..2265,  
2147..2206, 2160..2267, 2161..2268, 2366..2422, 2367..2468,  
2368..2478, 2368..2481

Seq. No. 45388 Seq. ID OJ000221\_20.0314.C8  
Gene No. 95966 Strand  
Start 841 End 2481  
Name OJ000221\_20.0314.C8.ol.tw Method TBLASTX:Wheat  
Start 2142 End 2268  
GI none Score 93  
Exons 2142..2267, 2143..2247, 2143..2268, 2144..2266

Seq. No. 45389 Seq. ID OJ000221\_20.0314.C9  
Gene No. 95967 Strand +  
Start 55 End 328  
Name OJ000221\_20.0314.C9.ol.gs Method GENSCAN  
Start 55 End 328  
GI none Score .64  
Exons 55..183, 293..328

Seq. No. 45389 Seq. ID OJ000221\_20.0314.C9  
Gene No. 95968 Strand -  
Start 664 End 1451  
Name OJ000221\_20.0314.C9.ol.tm Method TBLASTX:Maize  
Start 618 End 1407  
GI none Score 119  
Exons 618..668, 664..846, 668..838, 874..999, 985..1083, 998..1084,  
1177..1407, 1178..1225, 1283..1405

Seq. No. 45389 Seq. ID OJ000221\_20.0314.C9  
Gene No. 95968 Strand -  
Start 664 End 1451  
Name OJ000221\_20.0314.C9.ol.tc Method TBLASTX:Cress  
Start 664 End 856  
GI none Score 83  
Exons 664..855, 665..856



Seq. No.	45389	Seq. ID	OJ000221_20.0314.C9
Gene No.	95968	Strand	-
Start	664	End	1451
Name	OJ000221_20.0314.C9.o1.ts	Method	TBLASTX:Soybean
Start	664	End	1443
GI	none	Score	101
Exons	664..855, 874..999, 925..1077, 1096..1311, 1342..1443		

Seq. No.	45389	Seq. ID	OJ000221_20.0314.C9
Gene No.	95968	Strand	-
Start	664	End	1451
Name	OJ000221_20.0314.C9.o2.gs	Method	GENSCAN
Start	664	End	1356
GI	none	Score	.76
Exons	664..1356		

Seq. No.	45389	Seq. ID	OJ000221_20.0314.C9
Gene No.	95968	Strand	-
Start	664	End	1451
Name	OJ000221_20.0314.C9.o1.np	Method	AAT/NAP
Start	667	End	1451
GI	6907095	Score	1327
Exons	667..1451		
GI Descrip.	(AP001129) Similar to Oryza sativa Sc11 protein (AF067401)		

Seq. No.	45390	Seq. ID	OJ000221_20.0314.C10
Gene No.	95969	Strand	-
Start	1	End	1736
Name	OJ000221_20.0314.C10.o1.np	Method	AAT/NAP
Start	1	End	1699
GI	6907095	Score	518
Exons	1..23, 1378..1699		
GI Descrip.	(AP001129) Similar to Oryza sativa Sc11 protein (AF067401)		

Seq. No.	45390	Seq. ID	OJ000221_20.0314.C10
Gene No.	95969	Strand	-
Start	1	End	1736
Name	OJ000221_20.0314.C10.o1.gs	Method	GENSCAN
Start	1196	End	1736
GI	none	Score	.5
Exons	1196..1277, 1378..1736		

Seq. No.	45390	Seq. ID	OJ000221_20.0314.C10
Gene No.	95970	Strand	-
Start	2594	End	4507
Name	OJ000221_20.0314.C10.o2.gs	Method	GENSCAN
Start	2594	End	4507
GI	none	Score	.95
Exons	2594..3453, 3559..3718, 4169..4507		

Seq. No.	45390	Seq. ID	OJ000221_20.0314.C10
Gene No.	95970	Strand	-
Start	2594	End	4507
Name	OJ000221_20.0314.C10.o2.np	Method	AAT/NAP
Start	2597	End	4507
GI	6907094	Score	2359

Exons 2597..3453, 3559..3718, 4169..4507  
 GI Descrip. (AP001129) Similar to Phaseolus vulgaris Moldavian encoding asparagine-specific endopeptidase precursor (Z99956) [Oryza sativa]

Seq. No. 45390 Seq. ID OJ000221\_20.0314.C10  
 Gene No. 95970 Strand -  
 Start 2594 End 4507  
 Name OJ000221\_20.0314.C10.o1.tm Method TBLASTX:Maize  
 Start 2604 End 4394  
 GI none Score 176  
 Exons 2604..2855, 2609..2875, 2939..2983, 3053..3109, 3179..3238, 3192..3239, 3245..3319, 3246..3317, 3317..3454, 3324..3455, 3566..3640, 3567..3641, 3620..3721, 3645..3719, 4169..4234, 4169..4393, 4233..4394

Seq. No. 45390 Seq. ID OJ000221\_20.0314.C10  
 Gene No. 95970 Strand -  
 Start 2594 End 4507  
 Name OJ000221\_20.0314.C10.o1.ts Method TBLASTX:Soybean  
 Start 2604 End 4393  
 GI none Score 131  
 Exons 2604..2855, 2609..2875, 2939..2983, 3053..3109, 3116..3157, 3179..3238, 3192..3239, 3245..3319, 3317..3454, 3324..3455, 3555..3641, 3566..3640, 3620..3721, 4169..4336, 4233..4337, 4337..4393

Seq. No. 45390 Seq. ID OJ000221\_20.0314.C10  
 Gene No. 95970 Strand -  
 Start 2594 End 4507  
 Name OJ000221\_20.0314.C10.o1.tc Method TBLASTX:Cress  
 Start 2609 End 3394  
 GI none Score 129  
 Exons 2609..2875, 2610..2852, 2939..2980, 2940..2981, 3053..3109, 3182..3238, 3192..3239, 3228..3320, 3233..3319, 3317..3394, 3324..3392

Seq. No. 45390 Seq. ID OJ000221\_20.0314.C10  
 Gene No. 95970 Strand -  
 Start 2594 End 4507  
 Name OJ000221\_20.0314.C10.o2.tw Method TBLASTX:Wheat  
 Start 3053 End 3397  
 GI none Score 69  
 Exons 3053..3109, 3089..3157, 3179..3235, 3245..3319, 3246..3320, 3317..3397, 3324..3392

Seq. No. 45390 Seq. ID OJ000221\_20.0314.C10  
 Gene No. 95970 Strand -  
 Start 2594 End 4507  
 Name OJ000221\_20.0314.C10.o2.tc Method TBLASTX:Cress  
 Start 3401 End 4424  
 GI none Score 36  
 Exons 3401..3454, 3417..3455, 3555..3641, 3566..3640, 3572..3721, 4167..4424, 4169..4402

Seq. No. 45390 Seq. ID OJ000221\_20.0314.C10  
 Gene No. 95970 Strand -

Start	2594	End	4507
Name	OJ000221_20.0314.C10.o1.tw	Method	TBLASTX:Wheat
Start	4167	End	4394
GI	none	Score	108
Exons	4167..4391, 4169..4354, 4169..4393, 4233..4394		

Seq. No.	45391	Seq. ID	OJ000221_20.0314.C11
Gene No.	95971	Strand	+
Start	668	End	3840
Name	OJ000221_20.0314.C11.o1.gs	Method	GENSCAN
Start	668	End	3840
GI	none	Score	.46
Exons	668..746, 2369..2447, 3399..3538, 3590..3840		

Seq. No.	45391	Seq. ID	OJ000221_20.0314.C11
Gene No.	95971	Strand	+
Start	668	End	3840
Name	OJ000221_20.0314.C11.o1.np	Method	AAT/NAP
Start	1911	End	3837
GI	6907093	Score	456
Exons	1911..1949, 3590..3837		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	45391	Seq. ID	OJ000221_20.0314.C11
Gene No.	95972	Strand	-
Start	4519	End	5048
Name	OJ000221_20.0314.C11.o2.gs	Method	GENSCAN
Start	4519	End	5048
GI	none	Score	.53
Exons	4519..4628, 4856..5048		

Seq. No.	45392	Seq. ID	OJ000221_20.0314.C12
Gene No.	95973	Strand	+
Start	802	End	1326
Name	OJ000221_20.0314.C12.o1.gs	Method	GENSCAN
Start	802	End	1164
GI	none	Score	.5
Exons	802..1164		

Seq. No.	45392	Seq. ID	OJ000221_20.0314.C12
Gene No.	95973	Strand	+
Start	802	End	1326
Name	OJ000221_20.0314.C12.o1.np	Method	AAT/NAP
Start	802	End	1326
GI	6907092	Score	738
Exons	802..1120, 1190..1326		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	45392	Seq. ID	OJ000221_20.0314.C12
Gene No.	95974	Strand	+
Start	4423	End	4684
Name	OJ000221_20.0314.C12.o2.gs	Method	GENSCAN
Start	4423	End	4647
GI	none	Score	.84
Exons	4423..4647		

Seq. No.	45392	Seq. ID	OJ000221_20.0314.C12
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Gene No.	95974	Strand	+
Start	4423	End	4684
Name	OJ000221_20.0314.C12.o2.np	Method	AAT/NAP
Start	4423	End	4684
GI	6907091	Score	413
Exons	4423..4684		
GI Descrip.	(AP001129) Similar to Rice mRNA for lactate dehydrogenase. (D13817) [Oryza sativa]		

Seq. No.	45392	Seq. ID	OJ000221_20.0314.C12
Gene No.	95974	Strand	+
Start	4423	End	4684
Name	OJ000221_20.0314.C12.o2.gp	Method	AAT/GAP
Start	4431	End	4684
GI	uC-osrocyp004f07b1	Score	476
Exons	4431..4684		
GI Descrip.	'433214/dbj BAA02971  5.0e-42 (D13817) lactate dehydrogenase [Oryza sativa]'		

Seq. No.	45392	Seq. ID	OJ000221_20.0314.C12
Gene No.	95975	Strand	-
Start	1	End	75
Name	OJ000221_20.0314.C12.o1.gp	Method	AAT/GAP
Start	1	End	75
GI	5039029	Score	115
Exons	1..75		

Seq. No.	45392	Seq. ID	OJ000221_20.0314.C12
Gene No.	95976	Strand	
Start	4432	End	4683
Name	OJ000221_20.0314.C12.o1.tm	Method	TBLASTX:Maize
Start	4432	End	4683
GI	none	Score	49
Exons	4432..4476, 4525..4683, 4525..4683		

Seq. No.	45392	Seq. ID	OJ000221_20.0314.C12
Gene No.	95976	Strand	
Start	4432	End	4683
Name	OJ000221_20.0314.C12.o1.tc	Method	TBLASTX:Cress
Start	4510	End	4683
GI	none	Score	220
Exons	4510..4683, 4536..4682		

Seq. No.	45392	Seq. ID	OJ000221_20.0314.C12
Gene No.	95976	Strand	
Start	4432	End	4683
Name	OJ000221_20.0314.C12.o1.ts	Method	TBLASTX:Soybean
Start	4513	End	4683
GI	none	Score	218
Exons	4513..4677, 4522..4683, 4536..4682		

Seq. No.	45393	Seq. ID	OJ000221_20.0314.C13
Gene No.	95977	Strand	+
Start	1	End	457
Name	OJ000221_20.0314.C13.o1.np	Method	AAT/NAP
Start	1	End	454
GI	6907091	Score	737

Exons 1..454  
 GI Descrip. (AP001129) Similar to Rice mRNA for lactate dehydrogenase.  
 (D13817) [Oryza sativa]

Seq. No.	45393	Seq. ID	OJ000221_20.0314.C13
Gene No.	95977	Strand	+
Start	1	End	457
Name	OJ000221_20.0314.C13.o1.gs	Method	GENSCAN
Start	53	End	457
GI	none	Score	1
Exons	53..457		

Seq. No.	45393	Seq. ID	OJ000221_20.0314.C13
Gene No.	95978	Strand	-
Start	2075	End	2437
Name	OJ000221_20.0314.C13.o1.tc	Method	TBLASTX:Cress
Start	7	End	571
GI	none	Score	108
Exons	7..84, 8..82, 110..283, 142..282, 311..400, 380..460, 533..571		

Seq. No.	45393	Seq. ID	OJ000221_20.0314.C13
Gene No.	95978	Strand	-
Start	2075	End	2437
Name	OJ000221_20.0314.C13.o1.tm	Method	TBLASTX:Maize
Start	7	End	283
GI	none	Score	107
Exons	7..87, 8..88, 110..283, 130..282		

Seq. No.	45393	Seq. ID	OJ000221_20.0314.C13
Gene No.	95978	Strand	-
Start	2075	End	2437
Name	OJ000221_20.0314.C13.o1.ts	Method	TBLASTX:Soybean
Start	7	End	2235
GI	none	Score	96
Exons	7..78, 8..76, 110..283, 145..285, 305..400, 2155..2235		

Seq. No.	45393	Seq. ID	OJ000221_20.0314.C13
Gene No.	95978	Strand	-
Start	2075	End	2437
Name	OJ000221_20.0314.C13.o2.gs	Method	GENSCAN
Start	2075	End	2328
GI	none	Score	.48
Exons	2075..2328		

Seq. No.	45393	Seq. ID	OJ000221_20.0314.C13
Gene No.	95978	Strand	-
Start	2075	End	2437
Name	OJ000221_20.0314.C13.o2.np	Method	AAT/NAP
Start	2078	End	2437
GI	6907090	Score	614
Exons	2078..2437		
GI Descrip.	(AP001129) Similar to Oryza sativa root-specific RCc3 mRNA. (L27208)		

Seq. No.	45394	Seq. ID	OJ000221_20.0314.C14
Gene No.	95979	Strand	+
Start	92	End	635

Name	OJ000221_20.0314.C14.o1.gs	Method	GENSCAN
Start	92	End	635
GI	none	Score	.75
Exons	92..200, 547..635		

Seq. No.	45394	Seq. ID	OJ000221_20.0314.C14
Gene No.	95980	Strand	+
Start	2898	End	6189
Name	OJ000221_20.0314.C14.o1.np	Method	AAT/NAP
Start	2898	End	6186
GI	6907089	Score	5364
Exons	2898..4159, 4254..6186		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	45394	Seq. ID	OJ000221_20.0314.C14
Gene No.	95980	Strand	+
Start	2898	End	6189
Name	OJ000221_20.0314.C14.o3.gs	Method	GENSCAN
Start	2898	End	6189
GI	none	Score	.77
Exons	2898..4159, 4254..6189		

Seq. No.	45394	Seq. ID	OJ000221_20.0314.C14
Gene No.	95981	Strand	-
Start	1025	End	1833
Name	OJ000221_20.0314.C14.o2.gs	Method	GENSCAN
Start	1025	End	1833
GI	none	Score	.56
Exons	1025..1118, 1484..1554, 1771..1833		

Seq. No.	45394	Seq. ID	OJ000221_20.0314.C14
Gene No.	95982	Strand	-
Start	6819	End	14298
Name	OJ000221_20.0314.C14.o4.gs	Method	GENSCAN
Start	6819	End	9472
GI	none	Score	.87
Exons	6819..9308, 9326..9472		

Seq. No.	45394	Seq. ID	OJ000221_20.0314.C14
Gene No.	95982	Strand	-
Start	6819	End	14298
Name	OJ000221_20.0314.C14.o2.np	Method	AAT/NAP
Start	6822	End	12975
GI	7228457	Score	9759
Exons	6822..8372, 8439..9590, 9713..10548, 10612..12547, 12609..12975		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	45394	Seq. ID	OJ000221_20.0314.C14
Gene No.	95982	Strand	-
Start	6819	End	14298
Name	OJ000221_20.0314.C14.o5.gs	Method	GENSCAN
Start	9736	End	10485
GI	none	Score	.91
Exons	9736..10485		

Seq. No.	45394	Seq. ID	OJ000221_20.0314.C14
Gene No.	95982	Strand	-
Start	6819	End	14298
Name	OJ000221_20.0314.C14.o6.gs	Method	GENSCAN
Start	10549	End	13539
GI	none	Score	.7
Exons	10549..11750, 11889..12023, 12177..13049, 13086..13260, 13477..13539		

Seq. No.	45394	Seq. ID	OJ000221_20.0314.C14
Gene No.	95982	Strand	-
Start	6819	End	14298
Name	OJ000221_20.0314.C14.o3.np	Method	AAT/NAP
Start	13207	End	14298
GI	5042454	Score	258
Exons	13207..13260, 13477..13660, 14232..14298		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	45394	Seq. ID	OJ000221_20.0314.C14
Gene No.	95983	Strand	-
Start	14469	End	14542
Name	OJ000221_20.0314.C14.o5.tw	Method	TBLASTX:Wheat
Start	6831	End	7433
GI	none	Score	77
Exons	6831..6956, 6835..6957, 6987..7061, 7131..7433, 7150..7428		

Seq. No.	45394	Seq. ID	OJ000221_20.0314.C14
Gene No.	95983	Strand	-
Start	14469	End	14542
Name	OJ000221_20.0314.C14.o3.tw	Method	TBLASTX:Wheat
Start	7434	End	7815
GI	none	Score	168
Exons	7434..7814, 7465..7713, 7473..7811, 7759..7815		

Seq. No.	45394	Seq. ID	OJ000221_20.0314.C14
Gene No.	95983	Strand	-
Start	14469	End	14542
Name	OJ000221_20.0314.C14.o2.tm	Method	TBLASTX:Maize
Start	7629	End	7952
GI	none	Score	209
Exons	7629..7952, 7642..7923		

Seq. No.	45394	Seq. ID	OJ000221_20.0314.C14
Gene No.	95983	Strand	-
Start	14469	End	14542
Name	OJ000221_20.0314.C14.o9.tw	Method	TBLASTX:Wheat
Start	8145	End	8457
GI	none	Score	66
Exons	8145..8405, 8281..8457		

Seq. No.	45394	Seq. ID	OJ000221_20.0314.C14
Gene No.	95983	Strand	-
Start	14469	End	14542
Name	OJ000221_20.0314.C14.o2.ts	Method	TBLASTX:Soybean
Start	8205	End	8771
GI	5666795	Score	64
Exons	8205..8405, 8460..8597, 8673..8771		

GI Descrip. 4206306 2.0e-10 (AF049110) prpol [Zea mays]

Seq. No.	45394	Seq. ID	OJ000221_20.0314.C14
Gene No.	95983	Strand	-
Start	14469	End	14542
Name	OJ000221_20.0314.C14.o4.tw	Method	TBLASTX:Wheat
Start	8460	End	11921
GI	none	Score	88
Exons	8460..8609, 8461..8598, 8643..8894, 8644..8829, 8664..8918, 11868..11921		

Seq. No.	45394	Seq. ID	OJ000221_20.0314.C14
Gene No.	95983	Strand	-
Start	14469	End	14542
Name	OJ000221_20.0314.C14.o8.tw	Method	TBLASTX:Wheat
Start	9466	End	9755
GI	none	Score	48
Exons	9466..9624, 9468..9755, 9661..9750		

Seq. No.	45394	Seq. ID	OJ000221_20.0314.C14
Gene No.	95983	Strand	-
Start	14469	End	14542
Name	OJ000221_20.0314.C14.o1.ts	Method	TBLASTX:Soybean
Start	9519	End	9921
GI	none	Score	84
Exons	9519..9749, 9745..9921, 9749..9874		

Seq. No.	45394	Seq. ID	OJ000221_20.0314.C14
Gene No.	95983	Strand	-
Start	14469	End	14542
Name	OJ000221_20.0314.C14.o3.tm	Method	TBLASTX:Maize
Start	9642	End	10027
GI	none	Score	60
Exons	9642..9836, 9661..9789, 9748..10026, 9749..9883, 9810..9992, 9941..10027		

Seq. No.	45394	Seq. ID	OJ000221_20.0314.C14
Gene No.	95983	Strand	-
Start	14469	End	14542
Name	OJ000221_20.0314.C14.o6.tw	Method	TBLASTX:Wheat
Start	9766	End	10077
GI	none	Score	92
Exons	9766..10077, 9779..9877, 9938..10069		

Seq. No.	45394	Seq. ID	OJ000221_20.0314.C14
Gene No.	95983	Strand	-
Start	14469	End	14542
Name	OJ000221_20.0314.C14.o1.tm	Method	TBLASTX:Maize
Start	10054	End	10410
GI	none	Score	121
Exons	10054..10359, 10054..10410, 10064..10375		

Seq. No.	45394	Seq. ID	OJ000221_20.0314.C14
Gene No.	95983	Strand	-
Start	14469	End	14542
Name	OJ000221_20.0314.C14.o1.tw	Method	TBLASTX:Wheat
Start	10078	End	10540



GI	none	Score	226
Exons	10078..10539, 10084..10539, 10085..10540		
Seq. No.	45394	Seq. ID	OJ000221_20.0314.C14
Gene No.	95983	Strand	-
Start	14469	End	14542
Name	OJ000221_20.0314.C14.o3.ts	Method	TBLASTX:Soybean
Start	10135	End	10500
GI	none	Score	112
Exons	10135..10269, 10285..10500		
Seq. No.	45394	Seq. ID	OJ000221_20.0314.C14
Gene No.	95983	Strand	-
Start	14469	End	14542
Name	OJ000221_20.0314.C14.o2.tw	Method	TBLASTX:Wheat
Start	10705	End	11191
GI	none	Score	171
Exons	10705..11190, 10736..10996, 11018..11191		
Seq. No.	45394	Seq. ID	OJ000221_20.0314.C14
Gene No.	95983	Strand	-
Start	14469	End	14542
Name	OJ000221_20.0314.C14.o7.tw	Method	TBLASTX:Wheat
Start	11929	End	12321
GI	none	Score	92
Exons	11929..12186, 11963..12202, 12169..12267, 12170..12262, 12274..12321		
Seq. No.	45394	Seq. ID	OJ000221_20.0314.C14
Gene No.	95983	Strand	-
Start	14469	End	14542
Name	OJ000221_20.0314.C14.o4.tm	Method	TBLASTX:Maize
Start	12031	End	12316
GI	none	Score	92
Exons	12031..12279, 12032..12316		
Seq. No.	45394	Seq. ID	OJ000221_20.0314.C14
Gene No.	95983	Strand	-
Start	14469	End	14542
Name	OJ000221_20.0314.C14.o7.gs	Method	GENSCAN
Start	14469	End	14542
GI	none	Score	.96
Exons	14469..14542		
Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95984	Strand	+
Start	246	End	1754
Name	OJ000221_20.0314.C15.o1.gs	Method	GENSCAN
Start	246	End	1754
GI	none	Score	.55
Exons	246..482, 1221..1754		
Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95985	Strand	+
Start	10288	End	10820
Name	OJ000221_20.0314.C15.o3.gs	Method	GENSCAN
Start	10288	End	10820

GI	none	Score	.79
Exons	10288..10345, 10714..10820		
Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95986	Strand	+
Start	12470	End	14635
Name	OJ000221_20.0314.C15.o4.np	Method	AAT/NAP
Start	12470	End	14635
GI	6907086	Score	180
Exons	12470..12561, 12880..12997, 13479..13573, 13954..14196, 14256..14635		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		
Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95986	Strand	+
Start	12470	End	14635
Name	OJ000221_20.0314.C15.o5.np	Method	AAT/NAP
Start	12638	End	14635
GI	6983857	Score	182
Exons	12638..12997, 13736..13979, 14270..14635		
GI Descrip.	(AP001168) hypothetical protein [Oryza sativa]		
Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95987	Strand	-
Start	3059	End	8886
Name	OJ000221_20.0314.C15.o1.np	Method	AAT/NAP
Start	3030	End	8712
GI	4680179	Score	4536
Exons	3030..4130, 5240..7556, 7659..8712		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95987	Strand	-
Start	3059	End	8886
Name	OJ000221_20.0314.C15.o2.gs	Method	GENSCAN
Start	3059	End	8886
GI	none	Score	.85
Exons	3059..4228, 4587..4630, 5026..5160, 5259..5747, 5754..8886		
Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95988	Strand	-
Start	9864	End	10246
Name	OJ000221_20.0314.C15.o1.gp	Method	AAT/GAP
Start	9864	End	10246
GI	uC-osflcyp033a04b1	Score	664
Exons	9864..10246		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95989	Strand	-
Start	10713	End	12589
Name	OJ000221_20.0314.C15.o2.np	Method	AAT/NAP
Start	10713	End	12589
GI	6907087	Score	1896
Exons	10713..10814, 11353..11998, 12207..12589		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a		

region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95990	Strand	-
Start	13351	End	14132
Name	OJ000221_20.0314.C15.o5.tw	Method	TBLASTX:Wheat
Start	3074	End	3406
GI	none	Score	161
Exons	3074..3406, 3095..3367		

Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95990	Strand	-
Start	13351	End	14132
Name	OJ000221_20.0314.C15.o9.tm	Method	TBLASTX:Maize
Start	3089	End	3250
GI	none	Score	94
Exons	3089..3247, 3092..3250		

Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95990	Strand	-
Start	13351	End	14132
Name	OJ000221_20.0314.C15.o1.tm	Method	TBLASTX:Maize
Start	3257	End	3851
GI	none	Score	64
Exons	3257..3352, 3257..3694, 3267..3476, 3513..3695, 3552..3695, 3692..3850, 3699..3845, 3702..3851		

Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95990	Strand	-
Start	13351	End	14132
Name	OJ000221_20.0314.C15.o1.tw	Method	TBLASTX:Wheat
Start	3407	End	4033
GI	none	Score	257
Exons	3407..4033, 3531..3938		

Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95990	Strand	-
Start	13351	End	14132
Name	OJ000221_20.0314.C15.o4.tm	Method	TBLASTX:Maize
Start	3902	End	5301
GI	none	Score	103
Exons	3902..4144, 3905..4120, 4002..4130, 5218..5301		

Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95990	Strand	-
Start	13351	End	14132
Name	OJ000221_20.0314.C15.o3.ts	Method	TBLASTX:Soybean
Start	3992	End	5349
GI	none	Score	74
Exons	3992..4120, 3992..4135, 4002..4130, 5218..5349		

Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95990	Strand	-
Start	13351	End	14132
Name	OJ000221_20.0314.C15.o4.tw	Method	TBLASTX:Wheat
Start	4040	End	5673

GI	none	Score	101
Exons	4040..4144, 4044..4133, 4044..4145, 5194..5436, 5227..5673, 5228..5521		

Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95990	Strand	-
Start	13351	End	14132
Name	OJ000221_20.0314.C15.o2.tm	Method	TBLASTX:Maize
Start	5706	End	6069
GI	none	Score	210
Exons	5706..6017, 5716..6069, 5768..6067		

Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95990	Strand	-
Start	13351	End	14132
Name	OJ000221_20.0314.C15.o2.tw	Method	TBLASTX:Wheat
Start	5716	End	6142
GI	none	Score	107
Exons	5716..6141, 5718..6080, 5731..6138, 5753..6142		

Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95990	Strand	-
Start	13351	End	14132
Name	OJ000221_20.0314.C15.o2.ts	Method	TBLASTX:Soybean
Start	5890	End	6135
GI	none	Score	209
Exons	5890..6135		

Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95990	Strand	-
Start	13351	End	14132
Name	OJ000221_20.0314.C15.o5.tm	Method	TBLASTX:Maize
Start	6076	End	6423
GI	none	Score	67
Exons	6076..6423, 6221..6391		

Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95990	Strand	-
Start	13351	End	14132
Name	OJ000221_20.0314.C15.o6.tw	Method	TBLASTX:Wheat
Start	6148	End	6444
GI	none	Score	178
Exons	6148..6444, 6185..6400		

Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95990	Strand	-
Start	13351	End	14132
Name	OJ000221_20.0314.C15.o1.ts	Method	TBLASTX:Soybean
Start	6157	End	6552
GI	none	Score	146
Exons	6157..6516, 6185..6400, 6208..6510, 6440..6535, 6520..6552		

Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95990	Strand	-
Start	13351	End	14132
Name	OJ000221_20.0314.C15.o3.tm	Method	TBLASTX:Maize
Start	6439	End	6906

GI	none	Score	130
Exons	6439..6906, 6476..6835		
Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95990	Strand	-
Start	13351	End	14132
Name	OJ000221_20.0314.C15.o3.tw	Method	TBLASTX:Wheat
Start	6493	End	6975
GI	none	Score	232
Exons	6493..6975, 6521..6871, 6562..6948		
Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95990	Strand	-
Start	13351	End	14132
Name	OJ000221_20.0314.C15.o8.tm	Method	TBLASTX:Maize
Start	6907	End	7104
GI	none	Score	157
Exons	6907..7104, 6908..7054		
Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95990	Strand	-
Start	13351	End	14132
Name	OJ000221_20.0314.C15.o7.tw	Method	TBLASTX:Wheat
Start	7123	End	7522
GI	none	Score	84
Exons	7123..7287, 7172..7291, 7300..7521, 7367..7522		
Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95990	Strand	-
Start	13351	End	14132
Name	OJ000221_20.0314.C15.o7.tm	Method	TBLASTX:Maize
Start	7204	End	7528
GI	none	Score	66
Exons	7204..7527, 7415..7528		
Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95990	Strand	-
Start	13351	End	14132
Name	OJ000221_20.0314.C15.o6.tm	Method	TBLASTX:Maize
Start	7837	End	8238
GI	none	Score	234
Exons	7837..8238		
Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95990	Strand	-
Start	13351	End	14132
Name	OJ000221_20.0314.C15.o8.tw	Method	TBLASTX:Wheat
Start	8119	End	8484
GI	none	Score	60
Exons	8119..8484, 8378..8479		
Seq. No.	45395	Seq. ID	OJ000221_20.0314.C15
Gene No.	95990	Strand	-
Start	13351	End	14132
Name	OJ000221_20.0314.C15.o3.np	Method	AAT/NAP
Start	13351	End	14132
GI	6002794	Score	1255

Exons 13351..14132  
 GI Descrip. (AF149813) unknown [Oryza sativa]

Seq. No.	45396	Seq. ID	OJ000221_20.0314.C16
Gene No.	95991	Strand	+
Start	3064	End	3531
Name	OJ000221_20.0314.C16.o2.gs	Method	GENSCAN
Start	3064	End	3531
GI	none	Score	.95
Exons	3064..3073, 3458..3531		

Seq. No.	45396	Seq. ID	OJ000221_20.0314.C16
Gene No.	95992	Strand	+
Start	4365	End	5874
Name	OJ000221_20.0314.C16.o3.gs	Method	GENSCAN
Start	4365	End	5840
GI	none	Score	.71
Exons	4365..5264, 5565..5840		

Seq. No.	45396	Seq. ID	OJ000221_20.0314.C16
Gene No.	95992	Strand	+
Start	4365	End	5874
Name	OJ000221_20.0314.C16.o1.gp	Method	AAT/GAP
Start	4402	End	4918
GI	none	Score	1022
Exons	4402..4918		

Seq. No.	45396	Seq. ID	OJ000221_20.0314.C16
Gene No.	95992	Strand	+
Start	4365	End	5874
Name	OJ000221_20.0314.C16.o3.np	Method	AAT/NAP
Start	4479	End	5874
GI	6907085	Score	1831
Exons	4479..5264, 5565..5874		
GI Descrip.	(AP001129) ESTs AU082316(E3368),D41461(S3973) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	45396	Seq. ID	OJ000221_20.0314.C16
Gene No.	95992	Strand	+
Start	4365	End	5874
Name	OJ000221_20.0314.C16.o2.gp	Method	AAT/GAP
Start	5086	End	5846
GI	none	Score	871
Exons	5086..5264, 5565..5846		

Seq. No.	45396	Seq. ID	OJ000221_20.0314.C16
Gene No.	95993	Strand	-
Start	1128	End	1913
Name	OJ000221_20.0314.C16.o1.np	Method	AAT/NAP
Start	212	End	1913
GI	6907086	Score	2412
Exons	212..619, 846..1090, 1148..1913		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	45396	Seq. ID	OJ000221_20.0314.C16
Gene No.	95993	Strand	-

Start	1128	End	1913
Name	OJ000221_20.0314.C16.o1.gs	Method	GENSCAN
Start	1128	End	1775
GI	none	Score	1
Exons	1128..1775		

Seq. No.	45396	Seq. ID	OJ000221_20.0314.C16
Gene No.	95994	Strand	-
Start	2623	End	5954
Name	OJ000221_20.0314.C16.o2.np	Method	AAT/NAP
Start	2623	End	5954
GI	4680186	Score	185
Exons	2623..3041, 3520..3583, 5810..5954		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	45396	Seq. ID	OJ000221_20.0314.C16
Gene No.	95994	Strand	-
Start	2623	End	5954
Name	OJ000221_20.0314.C16.o1.tm	Method	TBLASTX:Maize
Start	4808	End	5825
GI	none	Score	60
Exons	4808..4843, 4809..4850, 4842..4904, 4854..4898, 4855..4905, 4856..5005, 4954..5004, 4974..5021, 4976..5017, 5560..5793, 5561..5809, 5562..5825, 5563..5817		

Seq. No.	45396	Seq. ID	OJ000221_20.0314.C16
Gene No.	95994	Strand	-
Start	2623	End	5954
Name	OJ000221_20.0314.C16.o1.tc	Method	TBLASTX:Cress
Start	5571	End	5840
GI	none	Score	257
Exons	5571..5840, 5591..5809		

Seq. No.	45396	Seq. ID	OJ000221_20.0314.C16
Gene No.	95994	Strand	-
Start	2623	End	5954
Name	OJ000221_20.0314.C16.o1.ts	Method	TBLASTX:Soybean
Start	5571	End	5846
GI	none	Score	303
Exons	5571..5846, 5585..5809, 5595..5840		

Seq. No.	45397	Seq. ID	OJ000221_20.0314.C22
Gene No.	95995	Strand	+
Start	1	End	786
Name	OJ000221_20.0314.C22.o1.np	Method	AAT/NAP
Start	1	End	786
GI	6907095	Score	405
Exons	1..68, 531..786		
GI Descrip.	(AP001129) Similar to Oryza sativa Sc11 protein (AF067401)		

Seq. No.	45397	Seq. ID	OJ000221_20.0314.C22
Gene No.	95995	Strand	+
Start	1	End	786
Name	OJ000221_20.0314.C22.o1.gs	Method	GENSCAN
Start	525	End	779
GI	none	Score	.7
Exons	525..779		

Seq. No.	45398	Seq. ID	OJ000221_20.0314.C23
Gene No.	95996	Strand	-
Start	353	End	1166
Name	OJ000221_20.0314.C23.ol.gs	Method	GENSCAN
Start	353	End	1166
GI	none	Score	.69
Exons	353..535, 1101..1166		

Seq. No.	45399	Seq. ID	OJ000221_20.0314.C24
Gene No.	95997	Strand	-
Start	1	End	1259
Name	OJ000221_20.0314.C24.ol.np	Method	AAT/NAP
Start	1	End	1247
GI	6907096	Score	916
Exons	1..105, 195..280, 467..539, 619..864, 974..1066, 1174..1247		
GI Descrip.	(AP001129) ESTs AU033004(S0924),C74754(E50863) correspond to a region of the predicted gene.; Similar to Rat mRNA for dihydrolipoamide acetyltransferase.. (D10655) [Oryza sativa]		

Seq. No.	45399	Seq. ID	OJ000221_20.0314.C24
Gene No.	95997	Strand	-
Start	1	End	1259
Name	OJ000221_20.0314.C24.ol.tc	Method	TBLASTX:Cress
Start	7	End	290
GI	none	Score	110
Exons	7..108, 8..112, 11..118, 192..290, 193..288		

Seq. No.	45399	Seq. ID	OJ000221_20.0314.C24
Gene No.	95997	Strand	-
Start	1	End	1259
Name	OJ000221_20.0314.C24.ol.tm	Method	TBLASTX:Maize
Start	19	End	1248
GI	none	Score	105
Exons	19..111, 19..111, 190..321, 192..284, 463..552, 466..534, 468..539, 616..675, 618..737, 618..737, 781..873, 811..873, 949..1062, 950..1066, 972..1067, 1169..1198, 1174..1197, 1200..1247, 1201..1248		

Seq. No.	45399	Seq. ID	OJ000221_20.0314.C24
Gene No.	95997	Strand	-
Start	1	End	1259
Name	OJ000221_20.0314.C24.ol.gs	Method	GENSCAN
Start	195	End	1048
GI	none	Score	.89
Exons	195..280, 467..539, 619..864, 974..1048		

Seq. No.	45399	Seq. ID	OJ000221_20.0314.C24
Gene No.	95997	Strand	-
Start	1	End	1259
Name	OJ000221_20.0314.C24.ol.gp	Method	AAT/GAP
Start	469	End	1234
GI	27518_1.R1084	Score	830
Exons	469..539, 619..864, 974..1066, 1174..1234		
GI Descrip.	'5669871/gb AAD46491.1 AF135014_1 7.0e-44 (AF135014) dihydrolipoamide S-acetyltransferase [Zea mays]'		



Seq. No.	45399	Seq. ID	OJ000221_20.0314.C24
Gene No.	95997	Strand	-
Start	1	End	1259
Name	OJ000221_20.0314.C24.o1.ts	Method	TBLASTX:Soybean
Start	808	End	1259
GI	none	Score	47
Exons	808..873, 811..873, 953..1066, 972..1067, 1174..1197, 1200..1259, 1201..1248		

Seq. No.	45399	Seq. ID	OJ000221_20.0314.C24
Gene No.	95997	Strand	-
Start	1	End	1259
Name	OJ000221_20.0314.C24.o2.tc	Method	TBLASTX:Cress
Start	811	End	1248
GI	none	Score	113
Exons	811..873, 953..1066, 972..1067, 1174..1197, 1200..1247, 1201..1248		

Seq. No.	45400	Seq. ID	OJ000221_20.0314.C31
Gene No.	95998	Strand	-
Start	247	End	357
Name	OJ000221_20.0314.C31.o1.tm	Method	TBLASTX:Maize
Start	1	End	357
GI	none	Score	220
Exons	1..150, 2..154, 3..161, 251..343, 253..357, 253..339		

Seq. No.	45400	Seq. ID	OJ000221_20.0314.C31
Gene No.	95998	Strand	-
Start	247	End	357
Name	OJ000221_20.0314.C31.o1.tw	Method	TBLASTX:Wheat
Start	29	End	345
GI	none	Score	165
Exons	29..154, 30..167, 30..155, 249..329, 251..340, 253..345		

Seq. No.	45400	Seq. ID	OJ000221_20.0314.C31
Gene No.	95998	Strand	-
Start	247	End	357
Name	OJ000221_20.0314.C31.o1.gp	Method	AAT/GAP
Start	247	End	346
GI	3106580	Score	138
Exons	247..346		
GI Descrip.	6002775/gb AF149806.1 AF149806 6.0e-36 Oryza sativa hypothetical protein, fertilin alpha subunit, membrane protein homolog, and Myb-related protein genes, complete cds; and unknown gene		

Seq. No.	45401	Seq. ID	OJ000221_20.0314.C33
Gene No.	95999	Strand	-
Start	502	End	868
Name	OJ000221_20.0314.C33.o1.gs	Method	GENSCAN
Start	502	End	829
GI	none	Score	.47
Exons	502..549, 725..829		

Seq. No.	45401	Seq. ID	OJ000221_20.0314.C33
Gene No.	95999	Strand	-
Start	502	End	868
Name	OJ000221_20.0314.C33.o1.gp	Method	AAT/GAP

Start	627	End	868
GI	2797354	Score	469
Exons	627..868		
GI Descrip.	6002775/gb AF149806.1 AF149806 1.0e-124 Oryza sativa hypothetical protein, fertilin alpha subunit, membrane protein homolog, and Myb-related protein genes, complete cds; and unknown gene		

Seq. No.	45402	Seq. ID	OJ000221_20.0314.C34
Gene No.	96000	Strand	-
Start	1	End	1572
Name	OJ000221_20.0314.C34.o1.np	Method	AAT/NAP
Start	1	End	1572
GI	7491033	Score	61
Exons	1..48, 121..265, 1553..1572		
GI Descrip.	hypothetical protein SPAC29B12.07 - fission yeast (Schizosaccharomyces pombe)		

Seq. No.	45402	Seq. ID	OJ000221_20.0314.C34
Gene No.	96000	Strand	-
Start	1	End	1572
Name	OJ000221_20.0314.C34.o2.tm	Method	TBLASTX:Maize
Start	1	End	404
GI	none	Score	67
Exons	1..33, 2..58, 3..47, 107..157, 112..267, 114..278, 125..268, 365..403, 366..404		

Seq. No.	45402	Seq. ID	OJ000221_20.0314.C34
Gene No.	96000	Strand	-
Start	1	End	1572
Name	OJ000221_20.0314.C34.o1.gp	Method	AAT/GAP
Start	16	End	455
GI	3766926	Score	838
Exons	16..455		
GI Descrip.	6002775/gb AF149806.1 AF149806 0.0e+00 Oryza sativa hypothetical protein, fertilin alpha subunit, membrane protein homolog, and Myb-related protein genes, complete cds; and unknown gene		

Seq. No.	45402	Seq. ID	OJ000221_20.0314.C34
Gene No.	96000	Strand	-
Start	1	End	1572
Name	OJ000221_20.0314.C34.o1.gs	Method	GENSCAN
Start	101	End	1303
GI	none	Score	.8
Exons	101..265, 367..471, 541..864, 962..1073, 1152..1303		

Seq. No.	45402	Seq. ID	OJ000221_20.0314.C34
Gene No.	96000	Strand	-
Start	1	End	1572
Name	OJ000221_20.0314.C34.o2.np	Method	AAT/NAP
Start	271	End	1572
GI	6907098	Score	1185
Exons	271..471, 541..864, 962..1073, 1152..1282, 1547..1572		
GI Descrip.	(AP001129) EST AU031036(E60617) corresponds to a region of the predicted gene.; Similar to Human mRNA for KIAA0310 gene. (AB002308) [Oryza sativa]		

Seq. No.	45402	Seq. ID	OJ000221_20.0314.C34
Gene No.	96000	Strand	-
Start	1	End	1572
Name	OJ000221_20.0314.C34.o1.tm	Method	TBLASTX:Maize
Start	404	End	1193
GI	none	Score	102
Exons	404..469, 404..469, 519..644, 541..630, 541..702, 548..706, 548..703, 707..865, 709..867, 709..867, 710..880, 958..1074, 961..1065, 962..1075, 963..1079, 1146..1193, 1150..1188, 1160..1192		

Seq. No.	45403	Seq. ID	OJ000221_20.0314.C35
Gene No.	96001	Strand	-
Start	1	End	2878
Name	OJ000221_20.0314.C35.o1.np	Method	AAT/NAP
Start	1	End	2878
GI	6907098	Score	2923
Exons	1..58, 428..505, 907..1035, 1351..1674, 1754..2878		
GI Descrip.	(AP001129) EST AU031036(E60617) corresponds to a region of the predicted gene.; Similar to Human mRNA for KIAA0310 gene. (AB002308) [Oryza sativa]		

Seq. No.	45403	Seq. ID	OJ000221_20.0314.C35
Gene No.	96001	Strand	-
Start	1	End	2878
Name	OJ000221_20.0314.C35.o1.ts	Method	TBLASTX:Soybean
Start	11	End	1029
GI	none	Score	133
Exons	11..55, 416..595, 447..614, 513..614, 514..615, 692..820, 701..814, 705..833, 709..828, 886..1029		

Seq. No.	45403	Seq. ID	OJ000221_20.0314.C35
Gene No.	96001	Strand	-
Start	1	End	2878
Name	OJ000221_20.0314.C35.o1.gs	Method	GENSCAN
Start	428	End	2839
GI	none	Score	.97
Exons	428..595, 705..827, 907..1035, 1351..1674, 1754..2839		

Seq. No.	45403	Seq. ID	OJ000221_20.0314.C35
Gene No.	96001	Strand	-
Start	1	End	2878
Name	OJ000221_20.0314.C35.o1.tm	Method	TBLASTX:Maize
Start	1568	End	2204
GI	none	Score	99
Exons	1568..1660, 1569..1676, 1570..1677, 1570..1677, 1752..1970, 1754..2074, 1755..1976, 2005..2127, 2145..2204		

Seq. No.	45404	Seq. ID	OJ000221_20.0314.C36
Gene No.	96002	Strand	-
Start	1	End	408
Name	OJ000221_20.0314.C36.o1.np	Method	AAT/NAP
Start	1	End	408
GI	6907098	Score	737
Exons	1..408		
GI Descrip.	(AP001129) EST AU031036(E60617) corresponds to a region of the predicted gene.; Similar to Human mRNA for KIAA0310 gene.		

(AB002308) [Oryza sativa]

Seq. No.	45404	Seq. ID	OJ000221_20.0314.C36
Gene No.	96002	Strand	-
Start	1	End	408
Name	OJ000221_20.0314.C36.o1.gs	Method	GENSCAN
Start	57	End	408
GI	none	Score	.96
Exons	57..408		

Seq. No.	45404	Seq. ID	OJ000221_20.0314.C36
Gene No.	96003	Strand	-
Start	1828	End	3812
Name	OJ000221_20.0314.C36.o2.gs	Method	GENSCAN
Start	1828	End	3738
GI	none	Score	.88
Exons	1828..1854, 2102..2263, 2382..2592, 2681..2797, 3301..3366, 3527..3738		

Seq. No.	45404	Seq. ID	OJ000221_20.0314.C36
Gene No.	96003	Strand	-
Start	1828	End	3812
Name	OJ000221_20.0314.C36.o2.np	Method	AAT/NAP
Start	1831	End	3812
GI	6907099	Score	1258
Exons	1831..1854, 2102..2263, 2382..2592, 2681..2797, 3301..3366, 3527..3812		
GI Descrip.	(AP001129) Similar to Arabidopsis thaliana DNA chromosome 4, ESSA I contig fragment No. 6, membrane protein homolog. (Z97341) [Oryza sativa]		

Seq. No.	45405	Seq. ID	OJ000221_20.0314.C37
Gene No.	96004	Strand	-
Start	1	End	1844
Name	OJ000221_20.0314.C37.o1.np	Method	AAT/NAP
Start	1	End	1844
GI	6907099	Score	164
Exons	1..48, 599..646, 1239..1298, 1737..1844		
GI Descrip.	(AP001129) Similar to Arabidopsis thaliana DNA chromosome 4, ESSA I contig fragment No. 6, membrane protein homolog. (Z97341) [Oryza sativa]		

Seq. No.	45405	Seq. ID	OJ000221_20.0314.C37
Gene No.	96004	Strand	-
Start	1	End	1844
Name	OJ000221_20.0314.C37.o1.gs	Method	GENSCAN
Start	449	End	1298
GI	none	Score	.59
Exons	449..646, 1239..1298		

Seq. No.	45406	Seq. ID	OJ000221_20.0314.C40
Gene No.	96005	Strand	-
Start	1	End	440
Name	OJ000221_20.0314.C40.o1.gp	Method	AAT/GAP
Start	1	End	440
GI	27518_1.R1084	Score	343
Exons	1..116, 335..440		

GI Descrip. '5669871/gb|AAD46491.1|AF135014\_1 7.0e-44 (AF135014)  
dihydrolipoamide S-acetyltransferase [Zea mays]'

Seq. No.	45406	Seq. ID	OJ000221_20.0314.C40
Gene No.	96005	Strand	-
Start	1	End	440
Name	OJ000221_20.0314.C40.ol.np	Method	AAT/NAP
Start	1	End	227
GI	6907096	Score	172
Exons	1..227		

GI Descrip. (AP001129) ESTs AU033004(S0924),C74754(E50863) correspond to a region of the predicted gene.; Similar to Rat mRNA for dihydrolipoamide acetyltransferase. (D10655) [Oryza sativa]

Seq. No.	45407	Seq. ID	OJ000221_20.0314.C41
Gene No.	96006	Strand	+
Start	1	End	1324
Name	OJ000221_20.0314.C41.ol.np	Method	AAT/NAP
Start	1	End	1324
GI	6002776	Score	787
Exons	1..311, 990..1100, 1231..1324		

GI Descrip. (AF149806) hypothetical protein [Oryza sativa]

Seq. No.	45407	Seq. ID	OJ000221_20.0314.C41
Gene No.	96006	Strand	+
Start	1	End	1324
Name	OJ000221_20.0314.C41.ol.gs	Method	GENSCAN
Start	57	End	1305
GI	none	Score	.96
Exons	57..257, 921..1046, 1141..1305		

Seq. No.	45407	Seq. ID	OJ000221_20.0314.C41
Gene No.	96006	Strand	+
Start	1	End	1324
Name	OJ000221_20.0314.C41.ol.tm	Method	TBLASTX:Maize
Start	68	End	1310
GI	none	Score	45
Exons	68..106, 68..103, 77..181, 102..287, 112..261, 126..272, 847..1041, 907..1041, 920..1042, 921..1043, 1140..1253, 1144..1308, 1144..1305, 1146..1310		

Seq. No.	45408	Seq. ID	OJ000221_20.0314.C43
Gene No.	96007	Strand	+
Start	132	End	752
Name	OJ000221_20.0314.C43.ol.np	Method	AAT/NAP
Start	132	End	752
GI	6983857	Score	543
Exons	132..253, 317..752		
GI Descrip.	(AP001168) hypothetical protein [Oryza sativa]		

Seq. No.	45409	Seq. ID	OJ000221_23.0317.C9
Gene No.	96008	Strand	+
Start	1027	End	4293
Name	OJ000221_23.0317.C9.ol.gs	Method	GENSCAN
Start	1027	End	4293
GI	none	Score	.48
Exons	1027..1161, 1785..1837, 3232..3315, 4080..4293		

Seq. No.	45409	Seq. ID	OJ000221_23.0317.C9
Gene No.	96009	Strand	-
Start	8342	End	8793
Name	OJ000221_23.0317.C9.o1.tm	Method	TBLASTX:Maize
Start	8165	End	8450
GI	none	Score	54
Exons	8165..8239, 8311..8439, 8312..8449, 8313..8366, 8412..8450		

Seq. No.	45409	Seq. ID	OJ000221_23.0317.C9
Gene No.	96009	Strand	-
Start	8342	End	8793
Name	OJ000221_23.0317.C9.o2.gs	Method	GENSCAN
Start	8342	End	8793
GI	none	Score	.97
Exons	8342..8742, 8751..8793		

Seq. No.	45409	Seq. ID	OJ000221_23.0317.C9
Gene No.	96009	Strand	-
Start	8342	End	8793
Name	OJ000221_23.0317.C9.o1.np	Method	AAT/NAP
Start	8345	End	8711
GI	7486031	Score	170
Exons	8345..8711		
GI Descrip.	hypothetical protein F23E13.150 - Arabidopsis thaliana gi 2961385 emb CAA18132.1  (AL022141) putative protein [Arabidopsis thaliana] gi 7270579 emb CAB80297.1  (AL161589) putative protein [Arabidopsis thaliana]		

Seq. No.	45409	Seq. ID	OJ000221_23.0317.C9
Gene No.	96009	Strand	-
Start	8342	End	8793
Name	OJ000221_23.0317.C9.o1.gp	Method	AAT/GAP
Start	8485	End	8793
GI	72794_1.R1084	Score	476
Exons	8485..8793		
GI Descrip.	'4929803/gb AAD34162.1 AF152555_1 1.0e-13 (AF152555) putative zinc finger protein SHI [Arabidopsis thaliana]'		

Seq. No.	45410	Seq. ID	OJ000221_23.0317.C10
Gene No.	96010	Strand	-
Start	24	End	1388
Name	OJ000221_23.0317.C10.o1.gs	Method	GENSCAN
Start	24	End	1388
GI	none	Score	.97
Exons	24..304, 629..719, 1035..1064, 1327..1388		

Seq. No.	45411	Seq. ID	OJ000221_23.0317.C11
Gene No.	96011	Strand	+
Start	182	End	243
Name	OJ000221_23.0317.C11.o1.gs	Method	GENSCAN
Start	182	End	243
GI	none	Score	.58
Exons	182..243		

Seq. No.	45411	Seq. ID	OJ000221_23.0317.C11
Gene No.	96012	Strand	+

Start	15300	End	15624
Name	OJ000221_23.0317.C11.o1.gp	Method	AAT/GAP
Start	15300	End	15624
GI	38012_1.R1084	Score	399
Exons	15300..15624		
GI Descrip.	'4097947/gb U72255 OSU72255 2.0e-23 Oryza sativa beta-1,3-glucanase precursor (Gns9) gene, complete cds'		

Seq. No.	45411	Seq. ID	OJ000221_23.0317.C11
Gene No.	96013	Strand	-
Start	1729	End	1893
Name	OJ000221_23.0317.C11.o2.gs	Method	GENSCAN
Start	1729	End	1893
GI	none	Score	.41
Exons	1729..1893		

Seq. No.	45411	Seq. ID	OJ000221_23.0317.C11
Gene No.	96014	Strand	-
Start	2223	End	17208
Name	OJ000221_23.0317.C11.o3.gs	Method	GENSCAN
Start	2223	End	16965
GI	none	Score	.51
Exons	2223..2800, 2872..3085, 4536..4663, 7597..7729, 7847..8072, 10234..10872, 10953..11230, 11376..11544, 11738..11875, 11977..12093, 13106..13241, 13628..13724, 13862..13915, 15403..15636, 15740..16327, 16406..16760, 16835..16965		

Seq. No.	45411	Seq. ID	OJ000221_23.0317.C11
Gene No.	96014	Strand	-
Start	2223	End	17208
Name	OJ000221_23.0317.C11.o1.np	Method	AAT/NAP
Start	10285	End	11564
GI	5903051	Score	667
Exons	10285..10872, 10953..11230, 11376..11564		
GI Descrip.	(AC008016) Contains PF 00069 Eukaryotic protein kinase domain. ESTs gb W43822, gb T20475 and gb AA586152 come from this gene. [Arabidopsis thaliana]		

Seq. No.	45411	Seq. ID	OJ000221_23.0317.C11
Gene No.	96014	Strand	-
Start	2223	End	17208
Name	OJ000221_23.0317.C11.o2.ts	Method	TBLASTX:Soybean
Start	10360	End	11486
GI	none	Score	49
Exons	10360..10533, 10368..10547, 10545..10871, 10600..10776, 10952..11005, 11045..11230, 11373..11486		

Seq. No.	45411	Seq. ID	OJ000221_23.0317.C11
Gene No.	96014	Strand	-
Start	2223	End	17208
Name	OJ000221_23.0317.C11.o2.tm	Method	TBLASTX:Maize
Start	10374	End	11522
GI	none	Score	96
Exons	10374..10580, 10393..10563, 10593..10871, 10594..10869, 10916..11005, 11045..11233, 11064..11231, 11373..11522		

Seq. No.	45411	Seq. ID	OJ000221_23.0317.C11
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Gene No.	96014	Strand	-
Start	2223	End	17208
Name	OJ000221_23.0317.C11.o2.tc	Method	TBLASTX:Cress
Start	10404	End	11492
GI	none	Score	82
Exons	10404..10550, 10522..10731, 10533..10742, 10746..10862, 10952..11008, 11048..11236, 11397..11492		

Seq. No.	45411	Seq. ID	OJ000221_23.0317.C11
Gene No.	96014	Strand	-
Start	2223	End	17208
Name	OJ000221_23.0317.C11.o2.tw	Method	TBLASTX:Wheat
Start	10602	End	11005
GI	none	Score	94
Exons	10602..10871, 10603..10854, 10916..11005		

Seq. No.	45411	Seq. ID	OJ000221_23.0317.C11
Gene No.	96014	Strand	-
Start	2223	End	17208
Name	OJ000221_23.0317.C11.o1.tm	Method	TBLASTX:Maize
Start	15327	End	17163
GI	none	Score	107
Exons	15327..15431, 15348..15446, 15349..15447, 15350..15454, 15414..15632, 15430..15636, 15430..15636, 15431..15637, 15740..16315, 15740..16330, 15741..16328, 15745..16329, 16093..16335, 16401..16436, 16403..16435, 16405..16437, 16406..16444, 16426..16485, 16430..16774, 16430..16762, 16431..16763, 16835..17062, 16837..17061, 16838..17062, 17018..17113, 17050..17139, 17061..17120, 17122..17163		

Seq. No.	45411	Seq. ID	OJ000221_23.0317.C11
Gene No.	96014	Strand	-
Start	2223	End	17208
Name	OJ000221_23.0317.C11.o3.tc	Method	TBLASTX:Cress
Start	15352	End	15582
GI	none	Score	58
Exons	15352..15432, 15360..15446, 15391..15498, 15404..15493, 15414..15551, 15430..15582, 15431..15574		

Seq. No.	45411	Seq. ID	OJ000221_23.0317.C11
Gene No.	96014	Strand	-
Start	2223	End	17208
Name	OJ000221_23.0317.C11.o2.np	Method	AAT/NAP
Start	15354	End	17208
GI	6850880	Score	2119
Exons	15354..15636, 15740..16327, 16406..16760, 16835..17208		
GI Descrip.	(AL137898) putative protein [Arabidopsis thaliana]		

Seq. No.	45411	Seq. ID	OJ000221_23.0317.C11
Gene No.	96014	Strand	-
Start	2223	End	17208
Name	OJ000221_23.0317.C11.o3.tw	Method	TBLASTX:Wheat
Start	15357	End	15594
GI	none	Score	87
Exons	15357..15446, 15415..15594, 15433..15561, 15440..15571		

Seq. No.	45411	Seq. ID	OJ000221_23.0317.C11
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Gene No.	96014	Strand	-
Start	2223	End	17208
Name	OJ000221_23.0317.C11.o1.ts	Method	TBLASTX:Soybean
Start	15437	End	17139
GI	none	Score	211
Exons	15437..15637, 15439..15636, 15455..15637, 15714..16328, 15740..16330, 15748..16329, 16129..16335, 16383..16436, 16406..16444, 16430..16765, 16430..16750, 16432..16773, 16533..16766, 16543..16770, 16840..16944, 16844..16891, 16943..17041, 16951..17043, 16951..17061, 16955..17062, 17050..17139, 17061..17120		

Seq. No.	45411	Seq. ID	OJ000221_23.0317.C11
Gene No.	96014	Strand	-
Start	2223	End	17208
Name	OJ000221_23.0317.C11.o1.tw	Method	TBLASTX:Wheat
Start	15743	End	16111
GI	none	Score	108
Exons	15743..15943, 15746..16111, 15780..16088		

Seq. No.	45411	Seq. ID	OJ000221_23.0317.C11
Gene No.	96014	Strand	-
Start	2223	End	17208
Name	OJ000221_23.0317.C11.o1.tc	Method	TBLASTX:Cress
Start	15758	End	16763
GI	none	Score	219
Exons	15758..16096, 15801..16091, 15929..16057, 16124..16315, 16127..16330, 16128..16325, 16406..16435, 16430..16762, 16431..16472, 16445..16738, 16533..16763		

Seq. No.	45411	Seq. ID	OJ000221_23.0317.C11
Gene No.	96014	Strand	-
Start	2223	End	17208
Name	OJ000221_23.0317.C11.o2.gp	Method	AAT/GAP
Start	16504	End	17208
GI	26315_1.R1084	Score	1121
Exons	16504..16760, 16835..17208		
GI Descrip.	'4539335/emb CAB37483.1  1.0e-34 (AL035539) putative protein [Arabidopsis thaliana]'		

Seq. No.	45411	Seq. ID	OJ000221_23.0317.C11
Gene No.	96014	Strand	-
Start	2223	End	17208
Name	OJ000221_23.0317.C11.o4.tc	Method	TBLASTX:Cress
Start	16843	End	17062
GI	none	Score	139
Exons	16843..17061, 16844..17062		

Seq. No.	45412	Seq. ID	OJ000221_23.0317.C12
Gene No.	96015	Strand	+
Start	2775	End	3449
Name	OJ000221_23.0317.C12.o1.gp	Method	AAT/GAP
Start	2775	End	3449
GI	38012_1.R1084	Score	1193
Exons	2775..3449		
GI Descrip.	'4097947/gb U72255 OSU72255 2.0e-23 Oryza sativa beta-1,3-glucanase precursor (Gns9) gene, complete cds'		

Seq. No.	45412	Seq. ID	OJ000221_23.0317.C12
Gene No.	96016	Strand	+
Start	8870	End	9133
Name	OJ000221_23.0317.C12.o6.gp	Method	AAT/GAP
Start	8870	End	9133
GI	none	Score	480
Exons	8870..9133		

Seq. No.	45412	Seq. ID	OJ000221_23.0317.C12
Gene No.	96017	Strand	-
Start	292	End	7121
Name	OJ000221_23.0317.C12.o1.gs	Method	GENSCAN
Start	292	End	7121
GI	none	Score	.69
Exons	292..317, 967..1250, 3238..3461, 3565..4152, 4239..4596, 4690..5024, 5134..5174, 5263..5473, 5973..5998, 6613..6848, 7036..7121		

Seq. No.	45412	Seq. ID	OJ000221_23.0317.C12
Gene No.	96017	Strand	-
Start	292	End	7121
Name	OJ000221_23.0317.C12.o1.np	Method	AAT/NAP
Start	3183	End	5458
GI	7271113	Score	2269
Exons	3183..3461, 3565..4152, 4239..4596, 4690..5024, 5134..5162, 5269..5458		
GI Descrip.	(AJ276420) 68 kDa protein [Cicer arietinum]		

Seq. No.	45412	Seq. ID	OJ000221_23.0317.C12
Gene No.	96017	Strand	-
Start	292	End	7121
Name	OJ000221_23.0317.C12.o2.gp	Method	AAT/GAP
Start	3393	End	3876
GI	LIB3434-045-P1-K1-B5	Score	713
Exons	3393..3461, 3565..3876		
GI Descrip.	'4539335/emb CAB37483.1  1.0e-49 (AL035539) putative protein [Arabidopsis thaliana]'		

Seq. No.	45412	Seq. ID	OJ000221_23.0317.C12
Gene No.	96017	Strand	-
Start	292	End	7121
Name	OJ000221_23.0317.C12.o3.gp	Method	AAT/GAP
Start	4340	End	5184
GI	26315_1.R1084	Score	1112
Exons	4340..4596, 4690..5024, 5134..5184		
GI Descrip.	'4539335/emb CAB37483.1  1.0e-34 (AL035539) putative protein [Arabidopsis thaliana]'		

Seq. No.	45412	Seq. ID	OJ000221_23.0317.C12
Gene No.	96017	Strand	-
Start	292	End	7121
Name	OJ000221_23.0317.C12.o4.gp	Method	AAT/GAP
Start	5863	End	6888
GI	3090465	Score	567
Exons	5863..5889, 5973..5998, 6613..6888		

Seq. No.	45412	Seq. ID	OJ000221_23.0317.C12
Gene No.	96018	Strand	-
Start	9295	End	14268
Name	OJ000221_23.0317.C12.o1.tm	Method	TBLASTX:Maize
Start	3183	End	5406
GI	none	Score	414
Exons	3183..3461, 3184..3450, 3184..3462, 3565..4155, 3566..4153, 3918..4160, 4215..4598, 4234..4599, 4236..4610, 4690..4995, 4692..4994, 5123..5197, 5134..5172, 5297..5365, 5302..5349, 5359..5406, 5360..5404		

Seq. No.	45412	Seq. ID	OJ000221_23.0317.C12
Gene No.	96018	Strand	-
Start	9295	End	14268
Name	OJ000221_23.0317.C12.o2.tw	Method	TBLASTX:Wheat
Start	3192	End	3419
GI	none	Score	161
Exons	3192..3419, 3193..3396, 3195..3407		

Seq. No.	45412	Seq. ID	OJ000221_23.0317.C12
Gene No.	96018	Strand	-
Start	9295	End	14268
Name	OJ000221_23.0317.C12.o2.tc	Method	TBLASTX:Cress
Start	3198	End	3483
GI	none	Score	200
Exons	3198..3461, 3223..3483, 3238..3447		

Seq. No.	45412	Seq. ID	OJ000221_23.0317.C12
Gene No.	96018	Strand	-
Start	9295	End	14268
Name	OJ000221_23.0317.C12.o1.ts	Method	TBLASTX:Soybean
Start	3262	End	4995
GI	none	Score	210
Exons	3262..3450, 3264..3461, 3279..3461, 3281..3463, 3565..4155, 3566..4153, 3954..4160, 4215..4601, 4215..4586, 4234..4605, 4238..4609, 4369..4602, 4379..4606, 4695..4799, 4699..4746, 4806..4988, 4806..4994, 4810..4995		

Seq. No.	45412	Seq. ID	OJ000221_23.0317.C12
Gene No.	96018	Strand	-
Start	9295	End	14268
Name	OJ000221_23.0317.C12.o1.tw	Method	TBLASTX:Wheat
Start	3571	End	3936
GI	none	Score	157
Exons	3571..3843, 3571..3936, 3605..3913		

Seq. No.	45412	Seq. ID	OJ000221_23.0317.C12
Gene No.	96018	Strand	-
Start	9295	End	14268
Name	OJ000221_23.0317.C12.o1.tc	Method	TBLASTX:Cress
Start	3583	End	4599
GI	none	Score	149
Exons	3583..3921, 3586..3882, 3626..3916, 3948..4091, 3949..4143, 3952..4155, 3953..4150, 4239..4574, 4239..4598, 4369..4599		

Seq. No.	45412	Seq. ID	OJ000221_23.0317.C12
Gene No.	96018	Strand	-

Start	9295	End	14268
Name	OJ000221_23.0317.C12.o3.tc	Method	TBLASTX:Cress
Start	4698	End	4965
GI	none	Score	107
Exons	4698..4934, 4698..4937, 4699..4965		

Seq. No.	45412	Seq. ID	OJ000221_23.0317.C12
Gene No.	96018	Strand	-
Start	9295	End	14268
Name	OJ000221_23.0317.C12.o2.np	Method	AAT/NAP
Start	9261	End	10972
GI	7486565	Score	650
Exons	9261..9396, 9448..9630, 10382..10727, 10833..10972		
GI Descrip.	hypothetical protein F7H19.100 - Arabidopsis thaliana gi 3292817 emb CAA19807.1  (AL031018) hypothetical protein [Arabidopsis thaliana] gi 7269139 emb CAB79247.1  (AL161558) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45412	Seq. ID	OJ000221_23.0317.C12
Gene No.	96018	Strand	-
Start	9295	End	14268
Name	OJ000221_23.0317.C12.o2.gs	Method	GENSCAN
Start	9295	End	14268
GI	none	Score	.84
Exons	9295..9630, 10382..10729, 10835..11030, 12458..12569, 13238..13305, 13382..13554, 14047..14268		

Seq. No.	45412	Seq. ID	OJ000221_23.0317.C12
Gene No.	96018	Strand	-
Start	9295	End	14268
Name	OJ000221_23.0317.C12.o2.ts	Method	TBLASTX:Soybean
Start	9304	End	10738
GI	none	Score	96
Exons	9304..9402, 9496..9630, 9509..9631, 10379..10684, 10446..10685, 10649..10738, 10650..10736		

Seq. No.	45412	Seq. ID	OJ000221_23.0317.C12
Gene No.	96018	Strand	-
Start	9295	End	14268
Name	OJ000221_23.0317.C12.o3.tm	Method	TBLASTX:Maize
Start	9490	End	9636
GI	none	Score	184
Exons	9490..9636, 9496..9630		

Seq. No.	45412	Seq. ID	OJ000221_23.0317.C12
Gene No.	96018	Strand	-
Start	9295	End	14268
Name	OJ000221_23.0317.C12.o4.tc	Method	TBLASTX:Cress
Start	9499	End	10558
GI	none	Score	110
Exons	9499..9630, 9509..9631, 10379..10558, 10380..10550		

Seq. No.	45412	Seq. ID	OJ000221_23.0317.C12
Gene No.	96018	Strand	-
Start	9295	End	14268
Name	OJ000221_23.0317.C12.o2.tm	Method	TBLASTX:Maize
Start	10371	End	10628

GI	none	Score	45
Exons	10371..10397, 10373..10615, 10446..10628		
Seq. No.	45412	Seq. ID	OJ000221_23.0317.C12
Gene No.	96018	Strand	-
Start	9295	End	14268
Name	OJ000221_23.0317.C12.o7.gp	Method	AAT/GAP
Start	10459	End	11212
GI	22860_1.R1084	Score	1168
Exons	10459..10729, 10835..11212		
GI Descrip.	'5002526/emb CAB44329.1  1.0e-13 (AL078606) putative protein [Arabidopsis thaliana]'		

Seq. No.	45413	Seq. ID	OJ000221_23.0317.C14
Gene No.	96019	Strand	-
Start	8791	End	12859
Name	OJ000221_23.0317.C14.o1.gp	Method	AAT/GAP
Start	8378	End	9141
GI	3213_1.R1084	Score	1254
Exons	8378..8883, 8984..9141		
GI Descrip.	'3831441 2.0e-13 (AC005819) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	45413	Seq. ID	OJ000221_23.0317.C14
Gene No.	96019	Strand	-
Start	8791	End	12859
Name	OJ000221_23.0317.C14.o2.gs	Method	GENSCAN
Start	8791	End	12859
GI	none	Score	.94
Exons	8791..8883, 8984..9650, 10006..10327, 10457..10595, 11269..11421, 11547..11677, 11770..11931, 12655..12859		

Seq. No.	45413	Seq. ID	OJ000221_23.0317.C14
Gene No.	96019	Strand	-
Start	8791	End	12859
Name	OJ000221_23.0317.C14.o1.np	Method	AAT/NAP
Start	8960	End	12841
GI	7485762	Score	445
Exons	8960..9383, 10003..10167, 11231..11452, 11536..11677, 11770..11931, 12625..12841		
GI Descrip.	hypothetical protein F19D11.7 - Arabidopsis thaliana gi 3510253 gb AAC33497.1  (AC005310) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45413	Seq. ID	OJ000221_23.0317.C14
Gene No.	96019	Strand	-
Start	8791	End	12859
Name	OJ000221_23.0317.C14.o2.gp	Method	AAT/GAP
Start	9242	End	11866
GI	6912_2.R1084	Score	2348
Exons	9242..9650, 10006..10327, 10457..10595, 11269..11421, 11547..11677, 11770..11866		
GI Descrip.	'3510253 8.0e-29 (AC005310) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	45413	Seq. ID	OJ000221_23.0317.C14
Gene No.	96020	Strand	-

Start	13148	End	17224
Name	OJ000221_23.0317.C14.o4.tm	Method	TBLASTX:Maize
Start	4114	End	4410
GI	none	Score	49
Exons	4114..4185, 4186..4371, 4369..4410		

Seq. No.	45413	Seq. ID	OJ000221_23.0317.C14
Gene No.	96020	Strand	-
Start	13148	End	17224
Name	OJ000221_23.0317.C14.o1.tm	Method	TBLASTX:Maize
Start	8788	End	9383
GI	none	Score	129
Exons	8788..8886, 8789..8884, 8790..8894, 8972..9055, 8972..9067, 8982..9068, 9065..9361, 9066..9335, 9317..9382, 9324..9383		

Seq. No.	45413	Seq. ID	OJ000221_23.0317.C14
Gene No.	96020	Strand	-
Start	13148	End	17224
Name	OJ000221_23.0317.C14.o3.tm	Method	TBLASTX:Maize
Start	9384	End	10593
GI	none	Score	137
Exons	9384..9467, 9385..9459, 9386..9649, 9386..9466, 9508..9651, 9512..9682, 9987..10139, 10004..10123, 10005..10139, 10111..10311, 10128..10265, 10131..10313, 10135..10314, 10455..10586, 10461..10592, 10462..10593		

Seq. No.	45413	Seq. ID	OJ000221_23.0317.C14
Gene No.	96020	Strand	-
Start	13148	End	17224
Name	OJ000221_23.0317.C14.o2.tm	Method	TBLASTX:Maize
Start	11314	End	16084
GI	none	Score	73
Exons	11314..11415, 11314..11421, 11333..11440, 11546..11677, 11547..11678, 11548..11685, 11755..11907, 11763..11933, 11765..11932, 11765..11962, 11766..11948, 12656..12724, 12656..12769, 12657..12758, 16004..16084		

Seq. No.	45413	Seq. ID	OJ000221_23.0317.C14
Gene No.	96020	Strand	-
Start	13148	End	17224
Name	OJ000221_23.0317.C14.o1.ts	Method	TBLASTX:Soybean
Start	11541	End	11951
GI	none	Score	104
Exons	11541..11684, 11542..11685, 11544..11642, 11555..11677, 11761..11808, 11765..11932, 11766..11951		

Seq. No.	45413	Seq. ID	OJ000221_23.0317.C14
Gene No.	96020	Strand	-
Start	13148	End	17224
Name	OJ000221_23.0317.C14.o2.np	Method	AAT/NAP
Start	13148	End	16377
GI	6523547	Score	120
Exons	13148..13667, 15036..15120, 15940..16075, 16324..16377		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	45413	Seq. ID	OJ000221_23.0317.C14
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Gene No.	96020	Strand	-
Start	13148	End	17224
Name	OJ000221_23.0317.C14.o3.gs	Method	GENSCAN
Start	14120	End	15169
GI	none	Score	.66
Exons	14120..14382, 14926..15169		
Seq. No.	45413	Seq. ID	OJ000221_23.0317.C14
Gene No.	96020	Strand	-
Start	13148	End	17224
Name	OJ000221_23.0317.C14.o4.gs	Method	GENSCAN
Start	15871	End	17224
GI	none	Score	.61
Exons	15871..16076, 16255..16525, 16887..17029, 17179..17224		
Seq. No.	45414	Seq. ID	OJ000221_23.0317.C15
Gene No.	96021	Strand	+
Start	3633	End	6908
Name	OJ000221_23.0317.C15.o1.np	Method	AAT/NAP
Start	3633	End	6908
GI	7486352	Score	605
Exons	3633..4903, 6872..6908		
GI Descrip.	hypothetical protein F3D13.1 - Arabidopsis thaliana gi 3193306 gb AAC19289.1  (AF069300) contains similarity to Arabidopsis membrane-associated salt-inducible-like protein (GB:AL021637) [Arabidopsis thaliana]		
Seq. No.	45414	Seq. ID	OJ000221_23.0317.C15
Gene No.	96021	Strand	+
Start	3633	End	6908
Name	OJ000221_23.0317.C15.o2.np	Method	AAT/NAP
Start	5909	End	6575
GI	7486057	Score	128
Exons	5909..6042, 6158..6310, 6396..6575		
GI Descrip.	hypothetical protein F24A6.130 - Arabidopsis thaliana gi 4454017 emb CAA23070.1  (AL035396) hypothetical protein [Arabidopsis thaliana] gi 7269380 emb CAB81340.1  (AL161563) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	45414	Seq. ID	OJ000221_23.0317.C15
Gene No.	96022	Strand	-
Start	5360	End	5577
Name	OJ000221_23.0317.C15.o1.tm	Method	TBLASTX:Maize
Start	376	End	1252
GI	none	Score	132
Exons	376..477, 378..485, 382..486, 559..606, 560..607, 560..607, 698..814, 701..799, 702..824, 920..1021, 920..1015, 1116..1208, 1118..1207, 1119..1226, 1217..1252		
Seq. No.	45414	Seq. ID	OJ000221_23.0317.C15
Gene No.	96022	Strand	-
Start	5360	End	5577
Name	OJ000221_23.0317.C15.o1.ts	Method	TBLASTX:Soybean
Start	4206	End	4883
GI	none	Score	230
Exons	4206..4859, 4296..4649, 4425..4865, 4434..4601, 4509..4883, 4509..4856, 4514..4831, 4514..4732, 4533..4670, 4715..4849		

Seq. No.	45414	Seq. ID	OJ000221_23.0317.C15
Gene No.	96022	Strand	-
Start	5360	End	5577
Name	OJ000221_23.0317.C15.o2.tm	Method	TBLASTX:Maize
Start	4212	End	4880
GI	none	Score	217
Exons	4212..4754, 4215..4553, 4263..4658, 4293..4868, 4305..4880		

Seq. No.	45414	Seq. ID	OJ000221_23.0317.C15
Gene No.	96022	Strand	-
Start	5360	End	5577
Name	OJ000221_23.0317.C15.o1.tc	Method	TBLASTX:Cress
Start	4215	End	4904
GI	none	Score	80
Exons	4215..4406, 4323..4484, 4401..4739, 4515..4865, 4716..4904		

Seq. No.	45414	Seq. ID	OJ000221_23.0317.C15
Gene No.	96022	Strand	-
Start	5360	End	5577
Name	OJ000221_23.0317.C15.o2.gs	Method	GENSCAN
Start	5360	End	5577
GI	none	Score	.48
Exons	5360..5577		

Seq. No.	45414	Seq. ID	OJ000221_23.0317.C15
Gene No.	96023	Strand	-
Start	5905	End	6251
Name	OJ000221_23.0317.C15.o3.tm	Method	TBLASTX:Maize
Start	5905	End	6251
GI	none	Score	116
Exons	5905..6045, 5911..6042, 6143..6244, 6155..6244, 6156..6251		

Seq. No.	45415	Seq. ID	OJ000221_23.0317.C16
Gene No.	96024	Strand	+
Start	1	End	5238
Name	OJ000221_23.0317.C16.o1.np	Method	AAT/NAP
Start	1	End	3327
GI	7486352	Score	518
Exons	1..619, 3307..3327		
GI Descrip.	hypothetical protein F3D13.1 - Arabidopsis thaliana gi 3193306 gb AAC19289.1  (AF069300) contains similarity to Arabidopsis membrane-associated salt-inducible-like protein (GB:AL021637) [Arabidopsis thaliana]		

Seq. No.	45415	Seq. ID	OJ000221_23.0317.C16
Gene No.	96024	Strand	+
Start	1	End	5238
Name	OJ000221_23.0317.C16.o1.ts	Method	TBLASTX:Soybean
Start	3	End	599
GI	none	Score	168
Exons	3..572, 12..371, 15..575, 101..349, 140..565, 141..581, 150..305, 221..571, 221..547, 225..599, 248..574, 249..386, 276..458		

Seq. No.	45415	Seq. ID	OJ000221_23.0317.C16
Gene No.	96024	Strand	+



Start	1	End	5238
Name	OJ000221_23.0317.C16.o2.tm	Method	TBLASTX:Maize
Start	3	End	596
GI	none	Score	132
Exons	3..374, 9..584, 21..596		

Seq. No.	45415	Seq. ID	OJ000221_23.0317.C16
Gene No.	96024	Strand	+
Start	1	End	5238
Name	OJ000221_23.0317.C16.o1.tc	Method	TBLASTX:Cress
Start	15	End	620
GI	none	Score	62
Exons	15..122, 39..200, 56..169, 117..458, 150..260, 210..581, 221..568, 255..401, 315..608, 432..620		

Seq. No.	45415	Seq. ID	OJ000221_23.0317.C16
Gene No.	96024	Strand	+
Start	1	End	5238
Name	OJ000221_23.0317.C16.o1.gs	Method	GENSCAN
Start	68	End	4678
GI	none	Score	.53
Exons	68..328, 625..718, 839..868, 1338..1473, 2233..2559, 2980..3099, 3270..3403, 3717..3868, 3901..4293, 4465..4678		

Seq. No.	45415	Seq. ID	OJ000221_23.0317.C16
Gene No.	96024	Strand	+
Start	1	End	5238
Name	OJ000221_23.0317.C16.o2.np	Method	AAT/NAP
Start	2340	End	5238
GI	7486057	Score	448
Exons	2340..2559, 3270..3403, 3519..3671, 3757..3868, 3963..4115, 4149..4258, 4559..4686, 5208..5238		
GI Descrip.	hypothetical protein F24A6.130 - Arabidopsis thaliana gi 4454017 emb CAA23070.1  (AL035396) hypothetical protein [Arabidopsis thaliana] gi 7269380 emb CAB81340.1  (AL161563) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45415	Seq. ID	OJ000221_23.0317.C16
Gene No.	96024	Strand	+
Start	1	End	5238
Name	OJ000221_23.0317.C16.o3.tm	Method	TBLASTX:Maize
Start	2444	End	3615
GI	none	Score	66
Exons	2444..2482, 2445..2483, 2445..2486, 2505..2555, 3266..3406, 3272..3403, 3504..3605, 3516..3605, 3517..3615		

Seq. No.	45415	Seq. ID	OJ000221_23.0317.C16
Gene No.	96024	Strand	+
Start	1	End	5238
Name	OJ000221_23.0317.C16.o1.gp	Method	AAT/GAP
Start	4068	End	4662
GI	LIB3432-048-P2-K1-H7	Score	793
Exons	4068..4293, 4465..4662		
GI Descrip.	'4454017/emb CAA23070  2.0e-10 (AL035396) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	45415	Seq. ID	OJ000221_23.0317.C16
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Gene No.	96024	Strand	+
Start	1	End	5238
Name	OJ000221_23.0317.C16.o1.tm	Method	TBLASTX:Maize
Start	4573	End	4872
GI	none	Score	174
Exons	4573..4677, 4574..4678, 4577..4678, 4780..4872, 4782..4871		

Seq. No.	45416	Seq. ID	OJ000221_23.0317.C17
Gene No.	96025	Strand	+
Start	375	End	1268
Name	OJ000221_23.0317.C17.o1.gs	Method	GENSCAN
Start	375	End	1268
GI	none	Score	.66
Exons	375..594, 1044..1143, 1172..1268		

Seq. No.	45416	Seq. ID	OJ000221_23.0317.C17
Gene No.	96026	Strand	-
Start	1788	End	1886
Name	OJ000221_23.0317.C17.o2.gs	Method	GENSCAN
Start	1788	End	1886
GI	none	Score	.91
Exons	1788..1886		

Seq. No.	45417	Seq. ID	OJ000221_22.0309.C4
Gene No.	96027	Strand	-
Start	419	End	3294
Name	OJ000221_22.0309.C4.o1.gs	Method	GENSCAN
Start	419	End	3294
GI	none	Score	.46
Exons	419..601, 758..993, 1073..1168, 1542..1778, 2994..3153, 3217..3294		

Seq. No.	45418	Seq. ID	OJ000221_22.0309.C5
Gene No.	96028	Strand	+
Start	1	End	3418
Name	OJ000221_22.0309.C5.o1.np	Method	AAT/NAP
Start	1	End	3418
GI	7486547	Score	66
Exons	1..21, 1076..1254, 3369..3418		
GI Descrip.	hypothetical protein F6N15.5 - Arabidopsis thaliana gi 3193321 gb AAC19303.1  (AF069299) F6N15.5 gene product [Arabidopsis thaliana] gi 7267103 emb CAB80774.1  (AL161471) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45418	Seq. ID	OJ000221_22.0309.C5
Gene No.	96028	Strand	+
Start	1	End	3418
Name	OJ000221_22.0309.C5.o1.gs	Method	GENSCAN
Start	69	End	2884
GI	none	Score	.96
Exons	69..208, 347..431, 770..890, 1060..1944, 2483..2884		

Seq. No.	45418	Seq. ID	OJ000221_22.0309.C5
Gene No.	96029	Strand	-
Start	3253	End	3626
Name	OJ000221_22.0309.C5.o2.gs	Method	GENSCAN
Start	3253	End	3626

GI none  
Exons 3253..3432, 3556..3626

Score .72

Seq. No. 45418  
Gene No. 96030  
Start 4336  
Name OJ000221\_22.0309.C5.o1.tw  
Start 1072  
GI none  
Exons 1072..1272, 1072..1200, 1074..1211, 1282..1455

Seq. ID OJ000221\_22.0309.C5  
Strand -  
End 4653  
Method TBLASTX:Wheat  
End 1455  
Score 131

Seq. No. 45418  
Gene No. 96030  
Start 4336  
Name OJ000221\_22.0309.C5.o1.gp  
Start 4336  
GI none  
Exons 4336..4653

Seq. ID OJ000221\_22.0309.C5  
Strand -  
End 4653  
Method AAT/GAP  
End 4653  
Score 594

Seq. No. 45419  
Gene No. 96031  
Start 939  
Name OJ000221\_22.0309.C6.o1.gp  
Start 545  
GI none  
Exons 545..1098

Seq. ID OJ000221\_22.0309.C6  
Strand -  
End 1160  
Method AAT/GAP  
End 1098  
Score 930

Seq. No. 45419  
Gene No. 96031  
Start 939  
Name OJ000221\_22.0309.C6.o1.gs  
Start 939  
GI none  
Exons 939..1160

Seq. ID OJ000221\_22.0309.C6  
Strand -  
End 1160  
Method GENSCAN  
End 1160  
Score .99

Seq. No. 45420  
Gene No. 96032  
Start 250  
Name OJ000221\_22.0309.C7.o1.tm  
Start 244  
GI none  
Exons 244..387, 247..387, 248..391, 488..742, 496..732

Seq. ID OJ000221\_22.0309.C7  
Strand -  
End 861  
Method TBLASTX:Maize  
End 742  
Score 189

Seq. No. 45420  
Gene No. 96032  
Start 250  
Name OJ000221\_22.0309.C7.o1.gs  
Start 250  
GI none  
Exons 250..386, 484..729

Seq. ID OJ000221\_22.0309.C7  
Strand -  
End 861  
Method GENSCAN  
End 729  
Score .66

Seq. No. 45420  
Gene No. 96032  
Start 250  
Name OJ000221\_22.0309.C7.o1.np  
Start 433

Seq. ID OJ000221\_22.0309.C7  
Strand -  
End 861  
Method AAT/NAP  
End 861

GI 7488118 Score 268  
 Exons 433..723, 841..861  
 GI Descrip. probable growth regulator - Arabidopsis thaliana  
 gi|2245020|emb|CAB10440.1| (Z97341) growth regulator like  
 protein [Arabidopsis thaliana] gi|7268415|emb|CAB78707.1|  
 (AL161544) growth regulator like protein [Arabidopsis thaliana]

Seq. No. 45420 Seq. ID OJ000221\_22.0309.C7  
 Gene No. 96032 Strand -  
 Start 250 End 861  
 Name OJ000221\_22.0309.C7.o1.ts Method TBLASTX:Soybean  
 Start 496 End 735  
 GI none Score 159  
 Exons 496..735, 497..667, 502..732

Seq. No. 45421 Seq. ID OJ000221\_22.0309.C8  
 Gene No. 96033 Strand +  
 Start 1 End 1626  
 Name OJ000221\_22.0309.C8.o1.np Method AAT/NAP  
 Start 1 End 1626  
 GI 6466937 Score 1208  
 Exons 1..1626  
 GI Descrip. (AC011621) putative retroelement pol polyprotein [Arabidopsis  
 thaliana]

Seq. No. 45421 Seq. ID OJ000221\_22.0309.C8  
 Gene No. 96033 Strand +  
 Start 1 End 1626  
 Name OJ000221\_22.0309.C8.o1.gs Method GENSCAN  
 Start 163 End 1591  
 GI none Score .77  
 Exons 163..509, 554..726, 1095..1591

Seq. No. 45421 Seq. ID OJ000221\_22.0309.C8  
 Gene No. 96033 Strand +  
 Start 1 End 1626  
 Name OJ000221\_22.0309.C8.o1.tw Method TBLASTX:Wheat  
 Start 358 End 839  
 GI none Score 81  
 Exons 358..492, 501..839, 501..755, 509..835

Seq. No. 45421 Seq. ID OJ000221\_22.0309.C8  
 Gene No. 96033 Strand +  
 Start 1 End 1626  
 Name OJ000221\_22.0309.C8.o2.tm Method TBLASTX:Maize  
 Start 418 End 892  
 GI none Score 80  
 Exons 418..498, 489..839, 489..797, 497..838, 839..892

Seq. No. 45421 Seq. ID OJ000221\_22.0309.C8  
 Gene No. 96033 Strand +  
 Start 1 End 1626  
 Name OJ000221\_22.0309.C8.o3.ts Method TBLASTX:Soybean  
 Start 504 End 711  
 GI none Score 183  
 Exons 504..707, 505..711

Seq. No.	45421	Seq. ID	OJ000221_22.0309.C8
Gene No.	96033	Strand	+
Start	1	End	1626
Name	OJ000221_22.0309.C8.o1.tc	Method	TBLASTX:Cress
Start	510	End	803
GI	none	Score	182
Exons	510..803		

Seq. No.	45421	Seq. ID	OJ000221_22.0309.C8
Gene No.	96033	Strand	+
Start	1	End	1626
Name	OJ000221_22.0309.C8.o1.ts	Method	TBLASTX:Soybean
Start	841	End	1174
GI	none	Score	310
Exons	841..1173, 842..1174		

Seq. No.	45421	Seq. ID	OJ000221_22.0309.C8
Gene No.	96033	Strand	+
Start	1	End	1626
Name	OJ000221_22.0309.C8.o2.tw	Method	TBLASTX:Wheat
Start	887	End	1288
GI	none	Score	318
Exons	887..1288, 887..1288		

Seq. No.	45421	Seq. ID	OJ000221_22.0309.C8
Gene No.	96033	Strand	+
Start	1	End	1626
Name	OJ000221_22.0309.C8.o1.tm	Method	TBLASTX:Maize
Start	907	End	1444
GI	none	Score	582
Exons	907..1416, 911..1444, 914..1432		

Seq. No.	45421	Seq. ID	OJ000221_22.0309.C8
Gene No.	96033	Strand	+
Start	1	End	1626
Name	OJ000221_22.0309.C8.o2.ts	Method	TBLASTX:Soybean
Start	1196	End	1441
GI	none	Score	213
Exons	1196..1441, 1214..1351, 1222..1356		

Seq. No.	45421	Seq. ID	OJ000221_22.0309.C8
Gene No.	96033	Strand	+
Start	1	End	1626
Name	OJ000221_22.0309.C8.o3.tm	Method	TBLASTX:Maize
Start	1445	End	1618
GI	none	Score	181
Exons	1445..1618, 1450..1608		

Seq. No.	45422	Seq. ID	OJ000221_22.0309.C9
Gene No.	96034	Strand	-
Start	1	End	2158
Name	OJ000221_22.0309.C9.o1.np	Method	AAT/NAP
Start	1	End	2158
GI	7228457	Score	2682
Exons	1..32, 415..753, 817..2158		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza		

sativa]

Seq. No. 45422  
Gene No. 96034  
Start 1  
Name OJ000221\_22.0309.C9.o1.tm  
Start 412  
GI none  
Exons 412..615, 440..580

Seq. ID OJ000221\_22.0309.C9  
Strand -  
End 2158  
Method TBLASTX:Maize  
End 615  
Score 123

Seq. No. 45422  
Gene No. 96034  
Start 1  
Name OJ000221\_22.0309.C9.o1.tw  
Start 412  
GI none  
Exons 412..744, 440..745

Seq. ID OJ000221\_22.0309.C9  
Strand -  
End 2158  
Method TBLASTX:Wheat  
End 745  
Score 234

Seq. No. 45422  
Gene No. 96034  
Start 1  
Name OJ000221\_22.0309.C9.o2.gs  
Start 754  
GI none  
Exons 754..2091

Seq. ID OJ000221\_22.0309.C9  
Strand -  
End 2158  
Method GENSCAN  
End 2091  
Score .97

Seq. No. 45422  
Gene No. 96034  
Start 1  
Name OJ000221\_22.0309.C9.o2.tw  
Start 937  
GI none  
Exons 937..1176, 937..1395, 1103..1201, 1259..1396, 1337..1432

Seq. ID OJ000221\_22.0309.C9  
Strand -  
End 2158  
Method TBLASTX:Wheat  
End 1432  
Score 76

Seq. No. 45423  
Gene No. 96035  
Start 1  
Name OJ000221\_22.0309.C10.o1.np  
Start 1  
GI 5803259  
Exons 1..57, 267..1812

Seq. ID OJ000221\_22.0309.C10  
Strand -  
End 1812  
Method AAT/NAP  
End 1812  
Score 1746

GI Descrip. (AP000399) hypothetical protein [Oryza sativa]

Seq. No. 45423  
Gene No. 96036  
Start 2450  
Name OJ000221\_22.0309.C10.o2.np  
Start 2450  
GI 7523512  
Exons 2450..2576

Seq. ID OJ000221\_22.0309.C10  
Strand -  
End 2576  
Method AAT/NAP  
End 2576  
Score 114

GI Descrip. (AP001633) hypothetical protein [Oryza sativa]

Seq. No. 45424  
Gene No. 96037  
Start 1  
Name OJ000221\_22.0309.C11.o2.np  
Start 1

Seq. ID OJ000221\_22.0309.C11  
Strand +  
End 3243  
Method AAT/NAP  
End 2445

GI 6466937 Score 816  
 Exons 1..24, 815..2253, 2352..2445  
 GI Descrip. (AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]

Seq. No. 45424 Seq. ID OJ000221\_22.0309.C11  
 Gene No. 96037 Strand +  
 Start 1 End 3243  
 Name OJ000221\_22.0309.C11.o1.np Method AAT/NAP  
 Start 238 End 669  
 GI 5042454 Score 183  
 Exons 238..411, 616..669  
 GI Descrip. (AC007789) putative polyprotein [Oryza sativa]

Seq. No. 45424 Seq. ID OJ000221\_22.0309.C11  
 Gene No. 96037 Strand +  
 Start 1 End 3243  
 Name OJ000221\_22.0309.C11.o1.gs Method GENSCAN  
 Start 325 End 3243  
 GI none Score .7  
 Exons 325..411, 601..786, 860..983, 1044..1225, 1549..2007, 2059..2209, 2562..2716, 2743..3243

Seq. No. 45424 Seq. ID OJ000221\_22.0309.C11  
 Gene No. 96038 Strand -  
 Start 2548 End 2691  
 Name OJ000221\_22.0309.C11.o3.np Method AAT/NAP  
 Start 2548 End 2691  
 GI 7487477 Score 173  
 Exons 2548..2691  
 GI Descrip. hypothetical protein T27E13.13 - Arabidopsis thaliana gi|3150407|gb|AAC16959.1| (AC004165) hypothetical protein [Arabidopsis thaliana]

Seq. No. 45424 Seq. ID OJ000221\_22.0309.C11  
 Gene No. 96039 Strand -  
 Start 2753 End 3990  
 Name OJ000221\_22.0309.C11.o2.tw Method TBLASTX:Wheat  
 Start 812 End 2651  
 GI none Score 294  
 Exons 812..1150, 859..1008, 1078..1149, 2559..2651

Seq. No. 45424 Seq. ID OJ000221\_22.0309.C11  
 Gene No. 96039 Strand -  
 Start 2753 End 3990  
 Name OJ000221\_22.0309.C11.o1.tm Method TBLASTX:Maize  
 Start 983 End 1614  
 GI none Score 492  
 Exons 983..1474, 985..1299, 1175..1471, 1471..1614, 1474..1605

Seq. No. 45424 Seq. ID OJ000221\_22.0309.C11  
 Gene No. 96039 Strand -  
 Start 2753 End 3990  
 Name OJ000221\_22.0309.C11.o1.ts Method TBLASTX:Soybean  
 Start 1004 End 1387  
 GI none Score 295  
 Exons 1004..1387, 1042..1302

Seq. No.	45424	Seq. ID	OJ000221_22.0309.C11
Gene No.	96039	Strand	-
Start	2753	End	3990
Name	OJ000221_22.0309.C11.o3.tw	Method	TBLASTX:Wheat
Start	1238	End	1623
GI	none	Score	148
Exons	1238..1483, 1471..1623		

Seq. No.	45424	Seq. ID	OJ000221_22.0309.C11
Gene No.	96039	Strand	-
Start	2753	End	3990
Name	OJ000221_22.0309.C11.o2.tm	Method	TBLASTX:Maize
Start	1624	End	2238
GI	none	Score	335
Exons	1624..2058, 1624..1992, 1722..1994, 2020..2238		

Seq. No.	45424	Seq. ID	OJ000221_22.0309.C11
Gene No.	96039	Strand	-
Start	2753	End	3990
Name	OJ000221_22.0309.C11.o1.tw	Method	TBLASTX:Wheat
Start	1692	End	2094
GI	none	Score	97
Exons	1692..1991, 1702..1992, 1722..2024, 1747..2094		

Seq. No.	45424	Seq. ID	OJ000221_22.0309.C11
Gene No.	96039	Strand	-
Start	2753	End	3990
Name	OJ000221_22.0309.C11.o2.ts	Method	TBLASTX:Soybean
Start	2532	End	2672
GI	none	Score	112
Exons	2532..2672, 2549..2671		

Seq. No.	45424	Seq. ID	OJ000221_22.0309.C11
Gene No.	96039	Strand	-
Start	2753	End	3990
Name	OJ000221_22.0309.C11.o3.tm	Method	TBLASTX:Maize
Start	2532	End	2677
GI	none	Score	129
Exons	2532..2669, 2549..2677		

Seq. No.	45424	Seq. ID	OJ000221_22.0309.C11
Gene No.	96039	Strand	-
Start	2753	End	3990
Name	OJ000221_22.0309.C11.o1.tc	Method	TBLASTX:Cress
Start	2532	End	2672
GI	none	Score	159
Exons	2532..2672, 2549..2671		

Seq. No.	45424	Seq. ID	OJ000221_22.0309.C11
Gene No.	96039	Strand	-
Start	2753	End	3990
Name	OJ000221_22.0309.C11.o4.np	Method	AAT/NAP
Start	2753	End	3990
GI	119110	Score	139
Exons	2753..3336, 3790..3990		
GI Descrip.	EBNA-1 NUCLEAR PROTEIN gi 73987 pir  QQBE31 probable nuclear		



antigen - human herpesvirus 4 (strain B95-8)  
gi|1334880|emb|CAA24816.1| (V01555) BKRF1 encodes EBNA-1  
protein, latent cycle gene. [Human herpesvirus 4]

Seq. No.	45425	Seq. ID	OJ000221_22.0309.C12
Gene No.	96040	Strand	+
Start	90	End	1070
Name	OJ000221_22.0309.C12.o1.gs	Method	GENSCAN
Start	90	End	1070
GI	none	Score	.84
Exons	90..143, 387..557, 936..1070		

Seq. No.	45426	Seq. ID	OJ000221_22.0309.C14
Gene No.	96041	Strand	+
Start	3386	End	3660
Name	OJ000221_22.0309.C14.o1.gp	Method	AAT/GAP
Start	3386	End	3660
GI	none	Score	550
Exons	3386..3660		

Seq. No.	45426	Seq. ID	OJ000221_22.0309.C14
Gene No.	96042	Strand	-
Start	3102	End	3597
Name	OJ000221_22.0309.C14.o2.gs	Method	GENSCAN
Start	3102	End	3597
GI	none	Score	.57
Exons	3102..3155, 3392..3597		

Seq. No.	45427	Seq. ID	OJ000221_22.0309.C15
Gene No.	96043	Strand	+
Start	1	End	1748
Name	OJ000221_22.0309.C15.o1.np	Method	AAT/NAP
Start	1	End	1748
GI	5545339	Score	593
Exons	1..932, 1705..1748		
GI Descrip.	(AB030083) lectin-like protein kinase [Populus nigra]		

Seq. No.	45427	Seq. ID	OJ000221_22.0309.C15
Gene No.	96043	Strand	+
Start	1	End	1748
Name	OJ000221_22.0309.C15.o1.gs	Method	GENSCAN
Start	52	End	1351
GI	none	Score	.96
Exons	52..929, 1230..1351		

Seq. No.	45427	Seq. ID	OJ000221_22.0309.C15
Gene No.	96044	Strand	-
Start	727	End	943
Name	OJ000221_22.0309.C15.o1.ts	Method	TBLASTX:Soybean
Start	671	End	931
GI	4305062	Score	170
Exons	671..823, 809..931, 809..919		
GI Descrip.	2129735/pir_S68589 6.0e-24 serine/threonine-specific kinase (EC 2.7.1.-) precursor - Arabidopsis thaliana >gi_1405837_emb_CAA62824_(X91630) receptor-like kinase [Arabidopsis thaliana] >gi_2150023 (AF001168) receptor-like kinase LECRK1 [Arabidopsis thaliana]		

Seq. No.	45427	Seq. ID	OJ000221_22.0309.C15
Gene No.	96044	Strand	-
Start	727	End	943
Name	OJ000221_22.0309.C15.o1.tm	Method	TBLASTX:Maize
Start	719	End	943
GI	none	Score	330
Exons	719..931, 719..943		
Seq. No.	45427	Seq. ID	OJ000221_22.0309.C15
Gene No.	96044	Strand	-
Start	727	End	943
Name	OJ000221_22.0309.C15.o1.gp	Method	AAT/GAP
Start	727	End	934
GI	52768_1.R1084	Score	383
Exons	727..934		
GI Descrip.	'5545339/dbj BAA82556.1  2.0e-46 (AB030083) lectin-like protein kinase [Populus nigra]'		
Seq. No.	45428	Seq. ID	OJ000221_22.0309.C16
Gene No.	96045	Strand	+
Start	1	End	1607
Name	OJ000221_22.0309.C16.o1.np	Method	AAT/NAP
Start	1	End	1586
GI	5545339	Score	879
Exons	1..177, 733..1499, 1536..1586		
GI Descrip.	(AB030083) lectin-like protein kinase [Populus nigra]		
Seq. No.	45428	Seq. ID	OJ000221_22.0309.C16
Gene No.	96045	Strand	+
Start	1	End	1607
Name	OJ000221_22.0309.C16.o1.gs	Method	GENSCAN
Start	52	End	1607
GI	none	Score	.71
Exons	52..177, 733..1607		
Seq. No.	45428	Seq. ID	OJ000221_22.0309.C16
Gene No.	96045	Strand	+
Start	1	End	1607
Name	OJ000221_22.0309.C16.o2.gp	Method	AAT/GAP
Start	1153	End	1553
GI	uC-osroM202012d11a1	Score	559
Exons	1153..1553		
GI Descrip.	'5545339/dbj BAA82556.1  5.0e-16 (AB030083) lectin-like protein kinase [Populus nigra]'		
Seq. No.	45428	Seq. ID	OJ000221_22.0309.C16
Gene No.	96046	Strand	-
Start	898	End	1238
Name	OJ000221_22.0309.C16.o1.tm	Method	TBLASTX:Maize
Start	1	End	1153
GI	none	Score	137
Exons	1..132, 2..130, 3..179, 3..176, 55..177, 731..835, 732..830, 816..866, 830..1153, 831..1151		
Seq. No.	45428	Seq. ID	OJ000221_22.0309.C16
Gene No.	96046	Strand	-

Start	898	End	1238
Name	OJ000221_22.0309.C16.o1.tc	Method	TBLASTX:Cress
Start	3	End	1157
GI	none	Score	55
Exons	3..53, 54..179, 732..995, 1037..1147, 1038..1157		

Seq. No.	45428	Seq. ID	OJ000221_22.0309.C16
Gene No.	96046	Strand	-
Start	898	End	1238
Name	OJ000221_22.0309.C16.o1.ts	Method	TBLASTX:Soybean
Start	60	End	1124
GI	none	Score	84
Exons	60..179, 731..799, 732..809, 828..1016, 939..1025, 996..1124, 1025..1123		

Seq. No.	45428	Seq. ID	OJ000221_22.0309.C16
Gene No.	96046	Strand	-
Start	898	End	1238
Name	OJ000221_22.0309.C16.o1.tw	Method	TBLASTX:Wheat
Start	723	End	1070
GI	none	Score	268
Exons	723..1070, 761..952		

Seq. No.	45428	Seq. ID	OJ000221_22.0309.C16
Gene No.	96046	Strand	-
Start	898	End	1238
Name	OJ000221_22.0309.C16.o1.gp	Method	AAT/GAP
Start	898	End	1238
GI	uC-osroM202013h01a1	Score	614
Exons	898..1238		
GI Descrip.	'5545339/dbj BAA82556.1  2.0e-33 (AB030083) lectin-like protein kinase [Populus nigra]'		

Seq. No.	45429	Seq. ID	OJ000221_22.0309.C17
Gene No.	96047	Strand	-
Start	754	End	838
Name	OJ000221_22.0309.C17.o1.np	Method	AAT/NAP
Start	754	End	838
GI	6721547	Score	84
Exons	754..838		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	45430	Seq. ID	OJ000221_22.0309.C18
Gene No.	96048	Strand	+
Start	1477	End	6628
Name	OJ000221_22.0309.C18.o1.np	Method	AAT/NAP
Start	1477	End	5243
GI	7452443	Score	965
Exons	1477..1779, 2337..3196, 4886..5243		
GI Descrip.	hypothetical protein F1C12.90 - Arabidopsis thaliana gi 2982434 emb CAA18242.1  (AL022224) putative protein [Arabidopsis thaliana] gi 7268812 emb CAB79017.1  (AL161552) putative protein [Arabidopsis thaliana]		

Seq. No.	45430	Seq. ID	OJ000221_22.0309.C18
Gene No.	96048	Strand	+
Start	1477	End	6628

Name	OJ000221_22.0309.C18.o1.gp	Method	AAT/GAP
Start	1839	End	2113
GI	699669	Score	509
Exons	1839..2113		

  

Seq. No.	45430	Seq. ID	OJ000221_22.0309.C18
Gene No.	96048	Strand	+
Start	1477	End	6628
Name	OJ000221_22.0309.C18.o2.gp	Method	AAT/GAP
Start	2864	End	5099
GI	LIB3433-043-P1-K1-E5	Score	1051
Exons	2864..3196, 4889..5099		
GI Descrip.	'2982434/emb CAA18242.1  9.0e-58 (AL022224) putative protein [Arabidopsis thaliana]'		

Seq. No.	45430	Seq. ID	OJ000221_22.0309.C18
Gene No.	96048	Strand	+
Start	1477	End	6628
Name	OJ000221_22.0309.C18.o2.np	Method	AAT/NAP
Start	4942	End	6628
GI	2281645	Score	91
Exons	4942..4998, 6359..6628		
GI Descrip.	(AF003103) AP2 domain containing protein RAP2.10 [Arabidopsis thaliana] gi 2632063 emb CAA05630.1  (AJ002598) TINY-like protein [Arabidopsis thaliana]		

Seq. No.	45430	Seq. ID	OJ000221_22.0309.C18
Gene No.	96048	Strand	+
Start	1477	End	6628
Name	OJ000221_22.0309.C18.o4.gp	Method	AAT/GAP
Start	6265	End	6587
GI	none	Score	608
Exons	6265..6587		

Seq. No.	45430	Seq. ID	OJ000221_22.0309.C18
Gene No.	96049	Strand	+
Start	8699	End	11405
Name	OJ000221_22.0309.C18.o3.gs	Method	GENSCAN
Start	8699	End	11405
GI	none	Score	.63
Exons	8699..8873, 9518..9976, 10730..10862, 11171..11405		

Seq. No.	45430	Seq. ID	OJ000221_22.0309.C18
Gene No.	96050	Strand	+
Start	12727	End	13521
Name	OJ000221_22.0309.C18.o5.gp	Method	AAT/GAP
Start	12727	End	13402
GI	42957_1.R1084	Score	857
Exons	12727..13028, 13136..13206, 13320..13402		
GI Descrip.	'6017111/gb AAF01594.1 AC009895_15 3.0e-37 (AC009895) unknown protein [Arabidopsis thaliana]'		

Seq. No.	45430	Seq. ID	OJ000221_22.0309.C18
Gene No.	96050	Strand	+
Start	12727	End	13521
Name	OJ000221_22.0309.C18.o3.np	Method	AAT/NAP
Start	12785	End	13521

GI 6017111 Score 502  
 Exons 12785..13028, 13136..13206, 13320..13521  
 GI Descrip. (AC009895) unknown protein [Arabidopsis thaliana]

Seq. No. 45430 Seq. ID OJ000221\_22.0309.C18  
 Gene No. 96050 Strand +  
 Start 12727 End 13521  
 Name OJ000221\_22.0309.C18.o4.gs Method GENSCAN  
 Start 12791 End 13454  
 GI none Score .64  
 Exons 12791..13028, 13136..13206, 13320..13454

Seq. No. 45430 Seq. ID OJ000221\_22.0309.C18  
 Gene No. 96051 Strand -  
 Start 5866 End 6680  
 Name OJ000221\_22.0309.C18.o3.tm Method TBLASTX:Maize  
 Start 2328 End 2481  
 GI none Score 232  
 Exons 2328..2480, 2329..2481

Seq. No. 45430 Seq. ID OJ000221\_22.0309.C18  
 Gene No. 96051 Strand -  
 Start 5866 End 6680  
 Name OJ000221\_22.0309.C18.o1.tc Method TBLASTX:Cress  
 Start 2337 End 3152  
 GI none Score 162  
 Exons 2337..2486, 2505..2609, 2519..2611, 2616..2654, 2750..3151, 2751..3152

Seq. No. 45430 Seq. ID OJ000221\_22.0309.C18  
 Gene No. 96051 Strand -  
 Start 5866 End 6680  
 Name OJ000221\_22.0309.C18.o1.ts Method TBLASTX:Soybean  
 Start 2337 End 2828  
 GI none Score 295  
 Exons 2337..2603, 2357..2452, 2519..2602, 2616..2654, 2682..2828, 2708..2827

Seq. No. 45430 Seq. ID OJ000221\_22.0309.C18  
 Gene No. 96051 Strand -  
 Start 5866 End 6680  
 Name OJ000221\_22.0309.C18.o2.ts Method TBLASTX:Soybean  
 Start 3120 End 5222  
 GI none Score 69  
 Exons 3120..3176, 4880..5062, 4886..5062, 4887..5105, 5094..5222

Seq. No. 45430 Seq. ID OJ000221\_22.0309.C18  
 Gene No. 96051 Strand -  
 Start 5866 End 6680  
 Name OJ000221\_22.0309.C18.o1.tm Method TBLASTX:Maize  
 Start 4891 End 5192  
 GI none Score 413  
 Exons 4891..5145, 4892..5146, 4893..5147, 5142..5192

Seq. No. 45430 Seq. ID OJ000221\_22.0309.C18  
 Gene No. 96051 Strand -  
 Start 5866 End 6680

Name	OJ000221_22.0309.C18.o2.gs	Method	GENSCAN
Start	5866	End	6680
GI	none	Score	.73
Exons	5866..6225, 6260..6374, 6379..6680		

Seq. No.	45430	Seq. ID	OJ000221_22.0309.C18
Gene No.	96052	Strand	
Start	12734	End	13400
Name	OJ000221_22.0309.C18.o2.tm	Method	TBLASTX:Maize
Start	12734	End	13209
GI	none	Score	310
Exons	12734..13030, 12788..12880, 12790..13029, 12992..13030, 13138..13209, 13149..13208, 13156..13209		

Seq. No.	45430	Seq. ID	OJ000221_22.0309.C18
Gene No.	96052	Strand	
Start	12734	End	13400
Name	OJ000221_22.0309.C18.o3.ts	Method	TBLASTX:Soybean
Start	12842	End	13400
GI	none	Score	178
Exons	12842..13030, 12892..13074, 12994..13047, 13138..13209, 13156..13209, 13159..13191, 13302..13400, 13319..13399		

Seq. No.	45431	Seq. ID	OJ000221_22.0309.C19
Gene No.	96053	Strand	+
Start	1	End	3742
Name	OJ000221_22.0309.C19.o1.np	Method	AAT/NAP
Start	1	End	3742
GI	6017111	Score	339
Exons	1..24, 844..902, 1377..1413, 2119..2244, 3087..3176, 3586..3659, 3718..3742		
GI Descrip.	(AC009895) unknown protein [Arabidopsis thaliana]		

Seq. No.	45431	Seq. ID	OJ000221_22.0309.C19
Gene No.	96053	Strand	+
Start	1	End	3742
Name	OJ000221_22.0309.C19.o1.gs	Method	GENSCAN
Start	795	End	3651
GI	none	Score	.79
Exons	795..902, 1377..1413, 2119..2244, 3087..3176, 3586..3651		

Seq. No.	45432	Seq. ID	OJ000221_22.0309.C21
Gene No.	96054	Strand	+
Start	1	End	1508
Name	OJ000221_22.0309.C21.o1.np	Method	AAT/NAP
Start	1	End	1508
GI	5545339	Score	208
Exons	1..25, 1061..1187, 1221..1508		
GI Descrip.	(AB030083).lectin-like protein kinase [Populus nigra]		

Seq. No.	45432	Seq. ID	OJ000221_22.0309.C21
Gene No.	96054	Strand	+
Start	1	End	1508
Name	OJ000221_22.0309.C21.o1.gs	Method	GENSCAN
Start	889	End	1500
GI	none	Score	.62
Exons	889..1500		

Seq. No.	45433	Seq. ID	OJ000221_22.0309.C23
Gene No.	96055	Strand	-
Start	313	End	809
Name	OJ000221_22.0309.C23.o1.tm	Method	TBLASTX:Maize
Start	108	End	809
GI	none	Score	81
Exons	108..206, 109..210, 110..208, 115..210, 324..422, 325..417, 328..426, 330..428, 502..645, 503..649, 587..649, 732..809, 735..809		

Seq. No.	45433	Seq. ID	OJ000221_22.0309.C23
Gene No.	96055	Strand	-
Start	313	End	809
Name	OJ000221_22.0309.C23.o1.gs	Method	GENSCAN
Start	313	End	648
GI	none	Score	.62
Exons	313..426, 505..648		

Seq. No.	45434	Seq. ID	OJ000221_22.0309.C25
Gene No.	96056	Strand	-
Start	774	End	2243
Name	OJ000221_22.0309.C25.o2.tm	Method	TBLASTX:Maize
Start	751	End	1046
GI	none	Score	212
Exons	751..942, 774..944, 776..946, 931..1044, 960..1046, 960..1046		

Seq. No.	45434	Seq. ID	OJ000221_22.0309.C25
Gene No.	96056	Strand	-
Start	774	End	2243
Name	OJ000221_22.0309.C25.o1.gs	Method	GENSCAN
Start	774	End	2243
GI	none	Score	.96
Exons	774..2243		

Seq. No.	45434	Seq. ID	OJ000221_22.0309.C25
Gene No.	96056	Strand	-
Start	774	End	2243
Name	OJ000221_22.0309.C25.o1.tm	Method	TBLASTX:Maize
Start	1047	End	1319
GI	none	Score	319
Exons	1047..1319, 1048..1317, 1062..1319		

Seq. No.	45434	Seq. ID	OJ000221_22.0309.C25
Gene No.	96056	Strand	-
Start	774	End	2243
Name	OJ000221_22.0309.C25.o3.tm	Method	TBLASTX:Maize
Start	1320	End	1491
GI	none	Score	86
Exons	1320..1481, 1335..1490, 1381..1491		

Seq. No.	45435	Seq. ID	OJ000221_22.0309.C26
Gene No.	96057	Strand	+
Start	87	End	2143
Name	OJ000221_22.0309.C26.o1.gs	Method	GENSCAN
Start	87	End	2143
GI	none	Score	.9

Exons 87..269, 559..702, 816..890, 1500..1901, 2012..2143

Seq. No.	45435	Seq. ID	OJ000221_22.0309.C26
Gene No.	96057	Strand	+
Start	87	End	2143
Name	OJ000221_22.0309.C26.o1.np	Method	AAT/NAP
Start	198	End	2137
GI	7470502	Score	128
Exons	198..305, 601..702, 816..887, 969..1205, 1328..1451, 1516..1901, 2018..2137		
GI Descrip.	hypothetical protein slr1794 - Synechocystis sp. (strain PCC 6803) gi 1651887 dbj BAA16814.1  (D90900) hypothetical protein [Synechocystis sp.]		

Seq. No.	45435	Seq. ID	OJ000221_22.0309.C26
Gene No.	96058	Strand	+
Start	2721	End	2908
Name	OJ000221_22.0309.C26.o2.np	Method	AAT/NAP
Start	2721	End	2908
GI	100789	Score	89
Exons	2721..2908		
GI Descrip.	heat shock protein 16.9B - wheat gi 21805 emb CAA45902.1  (X64618) heat shock protein 16.9B [Triticum aestivum]		

Seq. No.	45435	Seq. ID	OJ000221_22.0309.C26
Gene No.	96059	Strand	-
Start	2731	End	2850
Name	OJ000221_22.0309.C26.o1.tm	Method	TBLASTX:Maize
Start	197	End	1315
GI	none	Score	138
Exons	197..238, 554..700, 555..701, 557..700, 559..705, 802..888, 813..884, 816..893, 964..1155, 969..1157, 971..1159, 971..1156, 1237..1308, 1241..1315		

Seq. No.	45435	Seq. ID	OJ000221_22.0309.C26
Gene No.	96059	Strand	-
Start	2731	End	2850
Name	OJ000221_22.0309.C26.o1.ts	Method	TBLASTX:Soybean
Start	559	End	884
GI	none	Score	143
Exons	559..705, 561..701, 816..884		

Seq. No.	45435	Seq. ID	OJ000221_22.0309.C26
Gene No.	96059	Strand	-
Start	2731	End	2850
Name	OJ000221_22.0309.C26.o2.tm	Method	TBLASTX:Maize
Start	1704	End	2074
GI	none	Score	283
Exons	1704..1901, 1706..1906, 1707..1907, 1711..1920, 2008..2073, 2009..2074, 2011..2073		

Seq. No.	45435	Seq. ID	OJ000221_22.0309.C26
Gene No.	96059	Strand	-
Start	2731	End	2850
Name	OJ000221_22.0309.C26.o2.gs	Method	GENSCAN
Start	2731	End	2850
GI	none	Score	.98



Exons 2731..2850

Seq. No.	45436	Seq. ID	OJ000221_22.0309.C27
Gene No.	96060	Strand	+
Start	30	End	146
Name	OJ000221_22.0309.C27.o1.gs	Method	GENSCAN
Start	30	End	146
GI	none	Score	.65
Exons	30..146		

Seq. No.	45436	Seq. ID	OJ000221_22.0309.C27
Gene No.	96061	Strand	-
Start	3226	End	8835
Name	OJ000221_22.0309.C27.o2.gs	Method	GENSCAN
Start	3226	End	8835
GI	none	Score	.73
Exons	3226..3620, 5208..5240, 5362..5470, 6114..6183, 6432..6527, 6587..6719, 6930..7273, 8780..8835		

Seq. No.	45436	Seq. ID	OJ000221_22.0309.C27
Gene No.	96061	Strand	-
Start	3226	End	8835
Name	OJ000221_22.0309.C27.o1.gp	Method	AAT/GAP
Start	3235	End	3715
GI	702802	Score	643
Exons	3235..3509, 3626..3715		

Seq. No.	45437	Seq. ID	OJ000221_22.0309.C28
Gene No.	96062	Strand	+
Start	1890	End	2275
Name	OJ000221_22.0309.C28.o1.gp	Method	AAT/GAP
Start	1890	End	2275
GI	none	Score	685
Exons	1890..2275		

Seq. No.	45437	Seq. ID	OJ000221_22.0309.C28
Gene No.	96063	Strand	-
Start	1148	End	3477
Name	OJ000221_22.0309.C28.o1.gs	Method	GENSCAN
Start	1148	End	2905
GI	none	Score	.82
Exons	1148..1258, 1500..1599, 2256..2905		

Seq. No.	45437	Seq. ID	OJ000221_22.0309.C28
Gene No.	96063	Strand	-
Start	1148	End	3477
Name	OJ000221_22.0309.C28.o2.gp	Method	AAT/GAP
Start	2707	End	3477
GI	none	Score	696
Exons	2707..2946, 3332..3477		

Seq. No.	45437	Seq. ID	OJ000221_22.0309.C28
Gene No.	96064	Strand	-
Start	3424	End	5262
Name	OJ000221_22.0309.C28.o2.gs	Method	GENSCAN
Start	3424	End	4884
GI	none	Score	.83

Exons 3424..3485, 3687..3794, 4420..4475, 4594..4703, 4822..4884

Seq. No.	45437	Seq. ID	OJ000221_22.0309.C28
Gene No.	96064	Strand	-
Start	3424	End	5262
Name	OJ000221_22.0309.C28.o3.gp	Method	AAT/GAP
Start	4188	End	4704
GI	21910_1.R1084	Score	961
Exons	4188..4704		
GI Descrip.	'6017110/gb AAF01593.1 AC009895_14 7.0e-21 (AC009895) unknown protein [Arabidopsis thaliana]'		

Seq. No.	45437	Seq. ID	OJ000221_22.0309.C28
Gene No.	96064	Strand	-
Start	3424	End	5262
Name	OJ000221_22.0309.C28.o1.tm	Method	TBLASTX:Maize
Start	4488	End	4941
GI	none	Score	236
Exons	4488..4520, 4511..4696, 4525..4704, 4527..4706, 4528..4704, 4530..4706, 4817..4936, 4817..4933, 4822..4938, 4822..4941		

Seq. No.	45437	Seq. ID	OJ000221_22.0309.C28
Gene No.	96064	Strand	-
Start	3424	End	5262
Name	OJ000221_22.0309.C28.o1.ts	Method	TBLASTX:Soybean
Start	4527	End	4941
GI	none	Score	125
Exons	4527..4700, 4546..4701, 4585..4704, 4817..4936, 4819..4932, 4820..4936, 4822..4941		

Seq. No.	45437	Seq. ID	OJ000221_22.0309.C28
Gene No.	96064	Strand	-
Start	3424	End	5262
Name	OJ000221_22.0309.C28.o1.np	Method	AAT/NAP
Start	4542	End	5262
GI	6017110	Score	376
Exons	4542..4703, 4822..4940, 5223..5262		
GI Descrip.	(AC009895) unknown protein [Arabidopsis thaliana]		

Seq. No.	45437	Seq. ID	OJ000221_22.0309.C28
Gene No.	96064	Strand	-
Start	3424	End	5262
Name	OJ000221_22.0309.C28.o1.tc	Method	TBLASTX:Cress
Start	4620	End	4936
GI	none	Score	70
Exons	4620..4700, 4621..4701, 4822..4935, 4847..4936, 4853..4936		

Seq. No.	45438	Seq. ID	OJ000221_22.0309.C29
Gene No.	96065	Strand	-
Start	1	End	1073
Name	OJ000221_22.0309.C29.o1.np	Method	AAT/NAP
Start	1	End	1073
GI	6017110	Score	515
Exons	1..234, 554..794, 1028..1073		
GI Descrip.	(AC009895) unknown protein [Arabidopsis thaliana]		

Seq. No.	45438	Seq. ID	OJ000221_22.0309.C29
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Gene No.	96065	Strand	-
Start	1	End	1073
Name	OJ000221_22.0309.C29.o1.tm	Method	TBLASTX:Maize
Start	14	End	803
GI	none	Score	322
Exons	14..238, 19..240, 20..238, 542..796, 552..803, 555..785		
Seq. No.	45438	Seq. ID	OJ000221_22.0309.C29
Gene No.	96065	Strand	-
Start	1	End	1073
Name	OJ000221_22.0309.C29.o1.ts	Method	TBLASTX:Soybean
Start	18	End	796
GI	none	Score	228
Exons	18..227, 19..240, 23..235, 548..796, 561..782		
Seq. No.	45438	Seq. ID	OJ000221_22.0309.C29
Gene No.	96065	Strand	-
Start	1	End	1073
Name	OJ000221_22.0309.C29.o1.gs	Method	GENSCAN
Start	19	End	781
GI	none	Score	.62
Exons	19..234, 554..781		
Seq. No.	45438	Seq. ID	OJ000221_22.0309.C29
Gene No.	96065	Strand	-
Start	1	End	1073
Name	OJ000221_22.0309.C29.o1.tc	Method	TBLASTX:Cress
Start	19	End	700
GI	none	Score	195
Exons	19..240, 29..232, 548..700, 554..688, 567..689		
Seq. No.	45438	Seq. ID	OJ000221_22.0309.C29
Gene No.	96065	Strand	-
Start	1	End	1073
Name	OJ000221_22.0309.C29.o1.gp	Method	AAT/GAP
Start	32	End	785
GI	21651_1.R1084	Score	816
Exons	32..234, 554..785		
GI Descrip.	'6017110/gb AAF01593.1 AC009895_14 1.0e-69 (AC009895) unknown protein [Arabidopsis thaliana]'		
Seq. No.	45439	Seq. ID	OJ000221_22.0309.C30
Gene No.	96066	Strand	-
Start	58	End	463
Name	OJ000221_22.0309.C30.o1.gs	Method	GENSCAN
Start	58	End	463
GI	none	Score	.42
Exons	58..463		
Seq. No.	45439	Seq. ID	OJ000221_22.0309.C30
Gene No.	96067	Strand	-
Start	399	End	796
Name	OJ000221_22.0309.C30.o1.tm	Method	TBLASTX:Maize
Start	399	End	796
GI	none	Score	73
Exons	399..620, 401..652, 677..796		

Seq. No.	45440	Seq. ID	OJ000221_22.0309.C31
Gene No.	96068	Strand	+
Start	174	End	2081
Name	OJ000221_22.0309.C31.o1.np	Method	AAT/NAP
Start	174	End	2081
GI	7487477	Score	191
Exons	174..281, 491..773, 2057..2081		
GI Descrip.	hypothetical protein T27E13.13 - Arabidopsis thaliana gi 3150407 gb AAC16959.1  (AC004165) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45440	Seq. ID	OJ000221_22.0309.C31
Gene No.	96069	Strand	+
Start	4024	End	7035
Name	OJ000221_22.0309.C31.o2.gs	Method	GENSCAN
Start	4024	End	7009
GI	none	Score	.4
Exons	4024..4455, 5255..5309, 5582..5702, 6715..7009		

Seq. No.	45440	Seq. ID	OJ000221_22.0309.C31
Gene No.	96069	Strand	+
Start	4024	End	7035
Name	OJ000221_22.0309.C31.o2.gp	Method	AAT/GAP
Start	6588	End	7035
GI	11446_1.R1084	Score	784
Exons	6588..7035		
GI Descrip.	'5830788/emb CAB54874.1  2.0e-47 (AL117188) thioredoxin reductase (NADPH) 2 [Arabidopsis thaliana]'		

Seq. No.	45440	Seq. ID	OJ000221_22.0309.C31
Gene No.	96069	Strand	+
Start	4024	End	7035
Name	OJ000221_22.0309.C31.o3.np	Method	AAT/NAP
Start	6728	End	7035
GI	1942055	Score	378
Exons	6728..7035		
GI Descrip.	Structure Of Nadph Dependent Thioredoxin Reductase		

Seq. No.	45440	Seq. ID	OJ000221_22.0309.C31
Gene No.	96070	Strand	-
Start	1	End	1774
Name	OJ000221_22.0309.C31.o2.np	Method	AAT/NAP
Start	1	End	1774
GI	7340884	Score	142
Exons	1..112, 1553..1774		
GI Descrip.	(AP001551) Similar to Antirrhinum majus transposon Tam3 gene for transposase. (AB013982) [Oryza sativa]		

Seq. No.	45440	Seq. ID	OJ000221_22.0309.C31
Gene No.	96070	Strand	-
Start	1	End	1774
Name	OJ000221_22.0309.C31.o2.tc	Method	TBLASTX:Cress
Start	534	End	689
GI	none	Score	203
Exons	534..689, 536..688		

Seq. No.	45440	Seq. ID	OJ000221_22.0309.C31
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Gene No. 96070  
 Start 1  
 Name OJ000221\_22.0309.C31.o2.ts  
 Start 534  
 GI none  
 Exons 534..719, 536..721

Strand -  
 End 1774  
 Method TBLASTX:Soybean  
 End 721  
 Score 189

Seq. No. 45440  
 Gene No. 96071  
 Start 6718  
 Name OJ000221\_22.0309.C31.o1.tm  
 Start 6718  
 GI none  
 Exons 6718..7029, 6719..7033

Seq. ID OJ000221\_22.0309.C31  
 Strand  
 End 7033  
 Method TBLASTX:Maize  
 End 7033  
 Score 492

Seq. No. 45440  
 Gene No. 96071  
 Start 6718  
 Name OJ000221\_22.0309.C31.o1.tc  
 Start 6749  
 GI none  
 Exons 6749..7033, 6751..7029

Seq. ID OJ000221\_22.0309.C31  
 Strand  
 End 7033  
 Method TBLASTX:Cress  
 End 7033  
 Score 391

Seq. No. 45440  
 Gene No. 96071  
 Start 6718  
 Name OJ000221\_22.0309.C31.o1.ts  
 Start 6749  
 GI none  
 Exons 6749..7033, 6751..7032

Seq. ID OJ000221\_22.0309.C31  
 Strand  
 End 7033  
 Method TBLASTX:Soybean  
 End 7033  
 Score 432

Seq. No. 45441  
 Gene No. 96072  
 Start 1  
 Name OJ000221\_22.0309.C32.o1.gp  
 Start 1  
 GI 11446\_1.R1084  
 Exons 1..82

Seq. ID OJ000221\_22.0309.C32  
 Strand +  
 End 937  
 Method AAT/GAP  
 End 82  
 Score 164

GI Descrip. '5830788/emb|CAB54874.1| 2.0e-47 (AL117188) thioredoxin reductase (NADPH) 2 [Arabidopsis thaliana]'

Seq. No. 45441  
 Gene No. 96072  
 Start 1  
 Name OJ000221\_22.0309.C32.o1.np  
 Start 1  
 GI 2262173  
 Exons 1..567, 870..937

Seq. ID OJ000221\_22.0309.C32  
 Strand +  
 End 937  
 Method AAT/NAP  
 End 937  
 Score 757

GI Descrip. (AC002329) putative thioredoxin reductase [Arabidopsis thaliana]

Seq. No. 45441  
 Gene No. 96072  
 Start 1  
 Name OJ000221\_22.0309.C32.o1.ts  
 Start 23  
 GI none  
 Exons 23..277, 39..284

Seq. ID OJ000221\_22.0309.C32  
 Strand +  
 End 937  
 Method TBLASTX:Soybean  
 End 284  
 Score 361

Seq. No.	45441	Seq. ID	OJ000221_22.0309.C32
Gene No.	96072	Strand	+
Start	1	End	937
Name	OJ000221_22.0309.C32.o1.tc	Method	TBLASTX:Cress
Start	39	End	569
GI	none	Score	701
Exons	39..569, 53..277, 186..563, 341..568		

Seq. No.	45441	Seq. ID	OJ000221_22.0309.C32
Gene No.	96072	Strand	+
Start	1	End	937
Name	OJ000221_22.0309.C32.o1.tm	Method	TBLASTX:Maize
Start	53	End	569
GI	none	Score	754
Exons	53..277, 54..569, 192..566, 344..568		

Seq. No.	45441	Seq. ID	OJ000221_22.0309.C32
Gene No.	96072	Strand	+
Start	1	End	937
Name	OJ000221_22.0309.C32.o1.gs	Method	GENSCAN
Start	110	End	701
GI	none	Score	.83
Exons	110..567, 628..701		

Seq. No.	45441	Seq. ID	OJ000221_22.0309.C32
Gene No.	96072	Strand	+
Start	1	End	937
Name	OJ000221_22.0309.C32.o2.ts	Method	TBLASTX:Soybean
Start	336	End	569
GI	none	Score	337
Exons	336..569, 336..563, 338..568		

Seq. No.	45442	Seq. ID	OJ000221_22.0309.C34
Gene No.	96073	Strand	-
Start	1	End	1756
Name	OJ000221_22.0309.C34.o1.np	Method	AAT/NAP
Start	1	End	1756
GI	7488118	Score	1037
Exons	1..51, 628..872, 1095..1756		
GI Descrip.	probable growth regulator - Arabidopsis thaliana gi 2245020 emb CAB10440.1  (Z97341) growth regulator like protein [Arabidopsis thaliana] gi 7268415 emb CAB78707.1  (AL161544) growth regulator like protein [Arabidopsis thaliana]		

Seq. No.	45442	Seq. ID	OJ000221_22.0309.C34
Gene No.	96073	Strand	-
Start	1	End	1756
Name	OJ000221_22.0309.C34.o1.ts	Method	TBLASTX:Soybean
Start	623	End	1133
GI	none	Score	220
Exons	623..883, 627..890, 640..873, 728..874, 1089..1133		

Seq. No.	45442	Seq. ID	OJ000221_22.0309.C34
Gene No.	96073	Strand	-
Start	1	End	1756
Name	OJ000221_22.0309.C34.o1.gs	Method	GENSCAN

Start 640  
 GI none  
 Exons 640..872, 1095..1685

End 1685  
 Score .98

Seq. No. 45442  
 Gene No. 96073  
 Start 1  
 Name OJ000221\_22.0309.C34.o2.tm  
 Start 1092  
 GI none  
 Exons 1092..1343, 1093..1341, 1095..1367, 1133..1357

Seq. ID OJ000221\_22.0309.C34  
 Strand -  
 End 1756  
 Method TBLASTX:Maize  
 End 1367  
 Score 340

Seq. No. 45442  
 Gene No. 96073  
 Start 1  
 Name OJ000221\_22.0309.C34.o1.tw  
 Start 1167  
 GI none  
 Exons 1167..1256, 1167..1217, 1218..1343, 1219..1341, 1221..1361, 1256..1360, 1335..1424, 1386..1553, 1545..1613, 1546..1614

Seq. ID OJ000221\_22.0309.C34  
 Strand -  
 End 1756  
 Method TBLASTX:Wheat  
 End 1614  
 Score 59

Seq. No. 45442  
 Gene No. 96073  
 Start 1  
 Name OJ000221\_22.0309.C34.o1.tm  
 Start 1494  
 GI none  
 Exons 1494..1754, 1516..1755

Seq. ID OJ000221\_22.0309.C34  
 Strand -  
 End 1756  
 Method TBLASTX:Maize  
 End 1755  
 Score 249

Seq. No. 45442  
 Gene No. 96073  
 Start 1  
 Name OJ000221\_22.0309.C34.o1.tc  
 Start 1512  
 GI none  
 Exons 1512..1754, 1549..1755

Seq. ID OJ000221\_22.0309.C34  
 Strand -  
 End 1756  
 Method TBLASTX:Cress  
 End 1755  
 Score 106

Seq. No. 45442  
 Gene No. 96073  
 Start 1  
 Name OJ000221\_22.0309.C34.o2.ts  
 Start 1569  
 GI none  
 Exons 1569..1754, 1578..1745, 1585..1755

Seq. ID OJ000221\_22.0309.C34  
 Strand -  
 End 1756  
 Method TBLASTX:Soybean  
 End 1755  
 Score 83

Seq. No. 45443  
 Gene No. 96074  
 Start 1  
 Name OJ000301\_21.0330.C2.o1.np  
 Start 1  
 GI 6006359  
 Exons 1..55, 689..786  
 GI Descrip. (AP000559) hypothetical protein [Oryza sativa]

Seq. ID OJ000301\_21.0330.C2  
 Strand -  
 End 786  
 Method AAT/NAP  
 End 786  
 Score 73

Seq. No. 45443  
 Gene No. 96074

Seq. ID OJ000301\_21.0330.C2  
 Strand -

Start	1	End	786
Name	OJ000301_21.0330.C2.o1.gs	Method	GENSCAN
Start	15	End	135
GI	none	Score	.83
Exons	15..135		

Seq. No.	45444	Seq. ID	OJ000301_21.0330.C4
Gene No.	96075	Strand	+
Start	2359	End	7936
Name	OJ000301_21.0330.C4.o1.gs	Method	GENSCAN
Start	2359	End	7936
GI	none	Score	.64
Exons	2359..2378, 2498..2615, 3932..4066, 4152..4598, 4670..4733, 4893..5032, 5118..5429, 6015..6232, 7469..7547, 7599..7630, 7716..7936		

Seq. No.	45444	Seq. ID	OJ000301_21.0330.C4
Gene No.	96075	Strand	+
Start	2359	End	7936
Name	OJ000301_21.0330.C4.o1.np	Method	AAT/NAP
Start	4694	End	6341
GI	7021720	Score	630
Exons	4694..4733, 4893..5032, 5118..5429, 6015..6341		
GI Descrip.	(AC024081) putative ubiquitin-conjugating enzyme, 5' partial [Arabidopsis thaliana]		

Seq. No.	45444	Seq. ID	OJ000301_21.0330.C4
Gene No.	96075	Strand	+
Start	2359	End	7936
Name	OJ000301_21.0330.C4.o2.gp	Method	AAT/GAP
Start	4912	End	5453
GI	12048_1.R1084	Score	768
Exons	4912..5032, 5118..5453		
GI Descrip.	'3757521 3.0e-38 (AC005167) unknown protein [Arabidopsis thaliana]'		

Seq. No.	45444	Seq. ID	OJ000301_21.0330.C4
Gene No.	96076	Strand	-
Start	184	End	535
Name	OJ000301_21.0330.C4.o1.gp	Method	AAT/GAP
Start	184	End	535
GI	3515_1.R1084	Score	659
Exons	184..535		
GI Descrip.	'3757521 5.0e-84 (AC005167) unknown protein [Arabidopsis thaliana]'		

Seq. No.	45444	Seq. ID	OJ000301_21.0330.C4
Gene No.	96077	Strand	
Start	4351	End	6131
Name	OJ000301_21.0330.C4.o1.tm	Method	TBLASTX:Maize
Start	4351	End	6128
GI	none	Score	287
Exons	4351..4602, 4365..4598, 4667..4732, 4668..4739, 4669..4746, 4669..4731, 4890..5027, 4892..5035, 4892..5026, 5116..5427, 5118..5429, 5120..5428, 5121..5429, 6012..6128, 6017..6112		

Seq. No.	45444	Seq. ID	OJ000301_21.0330.C4
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Gene No.	96077	Strand	
Start	4351	End	6131
Name	OJ000301_21.0330.C4.o1.ts	Method	TBLASTX:Soybean
Start	4488	End	6131
GI	none	Score	65
Exons	4488..4556, 4643..4738, 4895..5032, 4897..4995, 4941..5036, 5113..5247, 5120..5428, 5121..5429, 5146..5430, 5364..5429, 6012..6131, 6017..6112		

Seq. No.	45444	Seq. ID	OJ000301_21.0330.C4
Gene No.	96077	Strand	
Start	4351	End	6131
Name	OJ000301_21.0330.C4.o1.tc	Method	TBLASTX:Cress
Start	4515	End	5354
GI	none	Score	58
Exons	4515..4571, 4667..4738, 4892..5035, 4894..4998, 4971..5033, 5118..5354, 5132..5350		

Seq. No.	45444	Seq. ID	OJ000301_21.0330.C4
Gene No.	96077	Strand	
Start	4351	End	6131
Name	OJ000301_21.0330.C4.o1.tw	Method	TBLASTX:Wheat
Start	4915	End	5426
GI	none	Score	167
Exons	4915..5004, 4916..5044, 4919..5014, 5114..5335, 5119..5358, 5127..5426, 5132..5425		

Seq. No.	45444	Seq. ID	OJ000301_21.0330.C4
Gene No.	96078	Strand	
Start	6039	End	6247
Name	OJ000301_21.0330.C4.o2.tw	Method	TBLASTX:Wheat
Start	6039	End	6247
GI	none	Score	307
Exons	6039..6236, 6039..6245, 6128..6247		

Seq. No.	45445	Seq. ID	OJ000301_21.0330.C5
Gene No.	96079	Strand	+
Start	1	End	7052
Name	OJ000301_21.0330.C5.o1.np	Method	AAT/NAP
Start	1	End	2221
GI	7452436	Score	876
Exons	1..2221		
GI Descrip.	hypothetical protein F17L22.160 - Arabidopsis thaliana gi 4455278 emb CAB36814.1  (AL035527) hypothetical protein [Arabidopsis thaliana] gi 7268967 emb CAB81277.1  (AL161555) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45445	Seq. ID	OJ000301_21.0330.C5
Gene No.	96079	Strand	+
Start	1	End	7052
Name	OJ000301_21.0330.C5.o1.gs	Method	GENSCAN
Start	4	End	7027
GI	none	Score	.74
Exons	4..1647, 4269..4343, 4456..4785, 4898..5458, 6146..6329, 6470..6642, 6749..7027		

Seq. No.	45445	Seq. ID	OJ000301_21.0330.C5
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Gene No. 96079  
 Start 1  
 Name OJ000301\_21.0330.C5.o1.gp  
 Start 403  
 GI none  
 Exons 403..867

Strand +  
 End 7052  
 Method AAT/GAP  
 End 867  
 Score 874

Seq. No. 45445  
 Gene No. 96079  
 Start 1  
 Name OJ000301\_21.0330.C5.o2.np  
 Start 4513  
 GI 6560762  
 Exons 4513..4785, 4898..5136, 5254..5507, 6118..6329, 6470..6642, 6749..7052

Seq. ID OJ000301\_21.0330.C5  
 Strand +  
 End 7052  
 Method AAT/NAP  
 End 7052  
 Score 1068

GI Descrip. (AC010155) F3M18.18 [Arabidopsis thaliana]

Seq. No. 45445  
 Gene No. 96079  
 Start 1  
 Name OJ000301\_21.0330.C5.o3.gp  
 Start 5932  
 GI 702107  
 Exons 5932..6350  
 GI Descrip. 5051771/emb|CAB45064.1| 5.0e-13 (AL078637) putative protein [Arabidopsis thaliana]

Seq. ID OJ000301\_21.0330.C5  
 Strand +  
 End 7052  
 Method AAT/GAP  
 End 6350  
 Score 756

Seq. No. 45445  
 Gene No. 96080  
 Start 1937  
 Name OJ000301\_21.0330.C5.o4.tm  
 Start 449  
 GI none  
 Exons 449..697, 449..697, 450..707, 451..708

Seq. ID OJ000301\_21.0330.C5  
 Strand -  
 End 2456  
 Method TBLASTX:Maize  
 End 708  
 Score 228

Seq. No. 45445  
 Gene No. 96080  
 Start 1937  
 Name OJ000301\_21.0330.C5.o1.tm  
 Start 709  
 GI none  
 Exons 709..966, 717..959, 831..977, 833..976, 952..1119, 981..1118, 988..1119

Seq. ID OJ000301\_21.0330.C5  
 Strand -  
 End 2456  
 Method TBLASTX:Maize  
 End 1119  
 Score 365

Seq. No. 45445  
 Gene No. 96080  
 Start 1937  
 Name OJ000301\_21.0330.C5.o3.ts  
 Start 1453  
 GI none  
 Exons 1453..1500, 1458..1496, 1504..1749, 1504..1620, 1514..1678, 1548..1736

Seq. ID OJ000301\_21.0330.C5  
 Strand -  
 End 2456  
 Method TBLASTX:Soybean  
 End 1749  
 Score 75

Seq. No. 45445  
 Gene No. 96080  
 Start 1937  
 Name OJ000301\_21.0330.C5.o2.tm

Seq. ID OJ000301\_21.0330.C5  
 Strand -  
 End 2456  
 Method TBLASTX:Maize

Start	1483	End	1857
GI	none	Score	495
Exons	1483..1857, 1485..1856, 1486..1857		

Seq. No.	45445	Seq. ID	OJ000301_21.0330.C5
Gene No.	96080	Strand	-
Start	1937	End	2456
Name	OJ000301_21.0330.C5.o3.tm	Method	TBLASTX:Maize
Start	1882	End	2199
GI	none	Score	417
Exons	1882..2199, 1883..2179, 1887..2195, 1891..2196		

Seq. No.	45445	Seq. ID	OJ000301_21.0330.C5
Gene No.	96080	Strand	-
Start	1937	End	2456
Name	OJ000301_21.0330.C5.o4.ts	Method	TBLASTX:Soybean
Start	1924	End	2190
GI	none	Score	201
Exons	1924..2190, 1924..2127		

Seq. No.	45445	Seq. ID	OJ000301_21.0330.C5
Gene No.	96080	Strand	-
Start	1937	End	2456
Name	OJ000301_21.0330.C5.o2.gp	Method	AAT/GAP
Start	1937	End	2456
GI	41954_1.R1084	Score	1020
Exons	1937..2456		
GI Descrip.	'5051771/emb CAB45064.1  5.0e-13 (AL078637) putative protein [Arabidopsis thaliana]'		

Seq. No.	45445	Seq. ID	OJ000301_21.0330.C5
Gene No.	96081	Strand	-
Start	4588	End	6952
Name	OJ000301_21.0330.C5.o2.ts	Method	TBLASTX:Soybean
Start	4588	End	5275
GI	none	Score	40
Exons	4588..4626, 4671..4778, 4735..4791, 4892..5143, 4897..5106, 5249..5275		

Seq. No.	45445	Seq. ID	OJ000301_21.0330.C5
Gene No.	96081	Strand	-
Start	4588	End	6952
Name	OJ000301_21.0330.C5.o1.tw	Method	TBLASTX:Wheat
Start	4738	End	5323
GI	none	Score	52
Exons	4738..4791, 4892..4972, 4897..4971, 4973..5005, 4979..5143, 5072..5131, 5218..5316, 5237..5323, 5252..5320		

Seq. No.	45445	Seq. ID	OJ000301_21.0330.C5
Gene No.	96081	Strand	-
Start	4588	End	6952
Name	OJ000301_21.0330.C5.o6.tm	Method	TBLASTX:Maize
Start	4895	End	5362
GI	none	Score	186
Exons	4895..5149, 5255..5362		

Seq. No.	45445	Seq. ID	OJ000301_21.0330.C5
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Gene No.	96081	Strand	
Start	4588	End	6952
Name	OJ000301_21.0330.C5.o1.tc	Method	TBLASTX:Cress
Start	4933	End	5410
GI	none	Score	75
Exons	4933..5034, 4934..5023, 4967..5143, 5233..5364, 5237..5410		

Seq. No.	45445	Seq. ID	OJ000301_21.0330.C5
Gene No.	96081	Strand	
Start	4588	End	6952
Name	OJ000301_21.0330.C5.o1.ts	Method	TBLASTX:Soybean
Start	5297	End	6952
GI	none	Score	103
Exons	5297..5419, 6125..6211, 6140..6334, 6208..6333, 6464..6628, 6471..6644, 6472..6645, 6742..6873, 6743..6868, 6905..6952		

Seq. No.	45445	Seq. ID	OJ000301_21.0330.C5
Gene No.	96081	Strand	
Start	4588	End	6952
Name	OJ000301_21.0330.C5.o2.tc	Method	TBLASTX:Cress
Start	6140	End	6832
GI	none	Score	182
Exons	6140..6301, 6208..6300, 6284..6325, 6471..6593, 6472..6603, 6558..6644, 6562..6645, 6746..6832, 6751..6804		

Seq. No.	45445	Seq. ID	OJ000301_21.0330.C5
Gene No.	96081	Strand	
Start	4588	End	6952
Name	OJ000301_21.0330.C5.o2.tw	Method	TBLASTX:Wheat
Start	6212	End	6645
GI	none	Score	160
Exons	6212..6334, 6214..6333, 6471..6566, 6472..6579, 6515..6643, 6516..6644, 6568..6645, 6585..6644		

Seq. No.	45445	Seq. ID	OJ000301_21.0330.C5
Gene No.	96081	Strand	
Start	4588	End	6952
Name	OJ000301_21.0330.C5.o5.tm	Method	TBLASTX:Maize
Start	6475	End	6859
GI	none	Score	95
Exons	6475..6573, 6501..6554, 6553..6648, 6558..6635, 6746..6859, 6766..6858		

Seq. No.	45446	Seq. ID	OJ000301_21.0330.C6
Gene No.	96082	Strand	+
Start	1	End	1122
Name	OJ000301_21.0330.C6.o1.np	Method	AAT/NAP
Start	1	End	286
GI	7452465	Score	194
Exons	1..286		
GI Descrip.	hypothetical protein T22A6.120 - Arabidopsis thaliana gi 5051771 emb CAB45064.1  (AL078637) putative protein [Arabidopsis thaliana] gi 7269279 emb CAB79339.1  (AL161561) putative protein [Arabidopsis thaliana]		

Seq. No.	45446	Seq. ID	OJ000301_21.0330.C6
Gene No.	96082	Strand	+

Start 1  
 Name OJ000301\_21.0330.C6.o1.gs  
 Start 19  
 GI none  
 Exons 19..252, 988..1122

End 1122  
 Method GENSCAN  
 End 1122  
 Score .49

Seq. No. 45446  
 Gene No. 96082  
 Start 1  
 Name OJ000301\_21.0330.C6.o1.ts  
 Start 36  
 GI none  
 Exons 36..236, 37..243, 286..336

Seq. ID OJ000301\_21.0330.C6  
 Strand +  
 End 1122  
 Method TBLASTX:Soybean  
 End 336  
 Score 222

Seq. No. 45446  
 Gene No. 96082  
 Start 1  
 Name OJ000301\_21.0330.C6.o1.tc  
 Start 49  
 GI none  
 Exons 49..99, 54..95, 88..243, 114..236

Seq. ID OJ000301\_21.0330.C6  
 Strand +  
 End 1122  
 Method TBLASTX:Cress  
 End 243  
 Score 55

Seq. No. 45446  
 Gene No. 96082  
 Start 1  
 Name OJ000301\_21.0330.C6.o1.gp  
 Start 256  
 GI none  
 Exons 256..559

Seq. ID OJ000301\_21.0330.C6  
 Strand +  
 End 1122  
 Method AAT/GAP  
 End 559  
 Score 574

Seq. No. 45447  
 Gene No. 96083  
 Start 220  
 Name OJ000301\_21.0330.C7.o1.gs  
 Start 220  
 GI none  
 Exons 220..431, 695..815, 1418..1684, 1991..2237

Seq. ID OJ000301\_21.0330.C7  
 Strand +  
 End 2237  
 Method GENSCAN  
 End 2237  
 Score .59

Seq. No. 45448  
 Gene No. 96084  
 Start 211  
 Name OJ000301\_21.0330.C8.o1.gs  
 Start 211  
 GI none  
 Exons 211..398, 527..619

Seq. ID OJ000301\_21.0330.C8  
 Strand +  
 End 619  
 Method GENSCAN  
 End 619  
 Score .54

Seq. No. 45448  
 Gene No. 96085  
 Start 187  
 Name OJ000301\_21.0330.C8.o1.gp  
 Start 187  
 GI none  
 Exons 187..496, 586..683, 1027..1141, 1299..1334

Seq. ID OJ000301\_21.0330.C8  
 Strand -  
 End 1334  
 Method AAT/GAP  
 End 1334  
 Score 892

Seq. No. 45449  
 Gene No. 96086  
 Start 153

Seq. ID OJ000301\_21.0330.C9  
 Strand -  
 End 2978

Name	OJ000301_21.0330.C9.o1.gp	Method	AAT/GAP
Start	153	End	771
GI	none	Score	368
Exons	153..260, 691..771		
Seq. No.	45449	Seq. ID	OJ000301_21.0330.C9
Gene No.	96086	Strand	-
Start	153	End	2978
Name	OJ000301_21.0330.C9.o1.gs	Method	GENSCAN
Start	153	End	2973
GI	none	Score	.83
Exons	153..260, 691..788, 867..967, 1573..1734, 1839..1910, 2002..2068, 2173..2273, 2631..2739, 2910..2973		
Seq. No.	45449	Seq. ID	OJ000301_21.0330.C9
Gene No.	96086	Strand	-
Start	153	End	2978
Name	OJ000301_21.0330.C9.o1.tw	Method	TBLASTX:Wheat
Start	735	End	1742
GI	none	Score	71
Exons	735..791, 735..788, 737..796, 737..790, 867..941, 867..935, 868..942, 869..952, 1570..1704, 1573..1734, 1574..1735, 1575..1742		
Seq. No.	45449	Seq. ID	OJ000301_21.0330.C9
Gene No.	96086	Strand	-
Start	153	End	2978
Name	OJ000301_21.0330.C9.o1.tm	Method	TBLASTX:Maize
Start	1627	End	2210
GI	none	Score	79
Exons	1627..1734, 1627..1704, 1649..1735, 1667..1741, 1835..1909, 1839..1910, 1851..1907, 1990..2070, 2005..2067, 2181..2210, 2182..2208		
Seq. No.	45449	Seq. ID	OJ000301_21.0330.C9
Gene No.	96086	Strand	-
Start	153	End	2978
Name	OJ000301_21.0330.C9.o2.gp	Method	AAT/GAP
Start	2033	End	2978
GI	none	Score	634
Exons	2033..2068, 2173..2273, 2374..2436, 2631..2739, 2910..2978		
Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96087	Strand	+
Start	18	End	4213
Name	OJ000301_21.0330.C10.o1.gs	Method	GENSCAN
Start	18	End	4213
GI	none	Score	.57
Exons	18..73, 3445..3548, 4149..4213		
Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96088	Strand	+
Start	7384	End	10458
Name	OJ000301_21.0330.C10.o2.gp	Method	AAT/GAP
Start	7136	End	7597
GI	none	Score	896
Exons	7136..7597		

Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96088	Strand	+
Start	7384	End	10458
Name	OJ000301_21.0330.C10.o3.gs	Method	GENSCAN
Start	7384	End	10458
GI	none	Score	.58
Exons	7384..8006, 9597..10458		
Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96088	Strand	+
Start	7384	End	10458
Name	OJ000301_21.0330.C10.o3.gp	Method	AAT/GAP
Start	7854	End	9825
GI	uC-osrocyp003g05a1	Score	740
Exons	7854..8006, 9597..9825		
GI Descrip.	'3548810 3.0e-09 (AC005313) putative chloroplast nucleoid DNA binding protein [Arabidopsis thaliana]'		
Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96088	Strand	+
Start	7384	End	10458
Name	OJ000301_21.0330.C10.o4.gp	Method	AAT/GAP
Start	9834	End	10297
GI	none	Score	865
Exons	9834..10297		
Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96089	Strand	+
Start	21251	End	22402
Name	OJ000301_21.0330.C10.o4.np	Method	AAT/NAP
Start	21233	End	22387
GI	4926830	Score	642
Exons	21233..22387		
GI Descrip.	(AC004135) T17H7.15 [Arabidopsis thaliana]		
Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96089	Strand	+
Start	21251	End	22402
Name	OJ000301_21.0330.C10.o6.gs	Method	GENSCAN
Start	21251	End	22402
GI	none	Score	.49
Exons	21251..22402		
Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96090	Strand	+
Start	32798	End	33218
Name	OJ000301_21.0330.C10.o10.gp	Method	AAT/GAP
Start	32798	End	33218
GI	428287	Score	842
Exons	32798..33218		
Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96091	Strand	-
Start	69	End	230
Name	OJ000301_21.0330.C10.o1.gp	Method	AAT/GAP
Start	69	End	230

GI	none	Score	258
Exons	69..230		
Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96092	Strand	-
Start	4971	End	5381
Name	OJ000301_21.0330.C10.o2.gs	Method	GENSCAN
Start	4971	End	5381
GI	none	Score	.51
Exons	4971..5381		
Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96093	Strand	-
Start	11050	End	17323
Name	OJ000301_21.0330.C10.o5.gp	Method	AAT/GAP
Start	10817	End	12895
GI	721_1.R1084	Score	1054
Exons	10817..11113, 11185..11267, 11767..11855, 11954..11993, 12821..12895		
GI Descrip.	'4090257/emb CAA10493.1  2.0e-46 (AJ131732) ribosomal protein L37A [Pseudotsuga menziesii]'		

Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96093	Strand	-
Start	11050	End	17323
Name	OJ000301_21.0330.C10.o4.gs	Method	GENSCAN
Start	11050	End	17259
GI	none	Score	.53
Exons	11050..11113, 11185..11267, 11767..11855, 11954..12016, 12573..12697, 12821..12891, 12964..13077, 16701..16799, 16866..17094, 17195..17259		

Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96093	Strand	-
Start	11050	End	17323
Name	OJ000301_21.0330.C10.o2.np	Method	AAT/NAP
Start	11053	End	11996
GI	6831602	Score	369
Exons	11053..11113, 11185..11267, 11767..11855, 11954..11996		
GI Descrip.	60S RIBOSOMAL PROTEIN L37A gi 4741896 gb AAD28753.1 AF127042_1 (AF127042) 60S ribosomal protein L37a [Gossypium hirsutum]		

Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96093	Strand	-
Start	11050	End	17323
Name	OJ000301_21.0330.C10.o6.gp	Method	AAT/GAP
Start	15355	End	17323
GI	1088_2.R1084	Score	1323
Exons	15355..15661, 16701..16753, 16866..17094, 17195..17323		
GI Descrip.	'1350742/sp P49180 R35A CAEEL 5.0e-28 PROBABLE 60S RIBOSOMAL PROTEIN L35A >gi_1086831 (U41264) coded for by C. elegans cDNA yk64g10.5; coded for by C. elegans cDNA yk51f3.5; coded for by C. elegans cDNA yk115e7.3; coded for by C. elegans cDNA yk99d1.3; coded for by C. elegans cDNA yk99d1.5; coded for by C. elegans cDNA yk64g1'		

Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
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Gene No.	96093	Strand	-
Start	11050	End	17323
Name	OJ000301_21.0330.C10.o3.np	Method	AAT/NAP
Start	16715	End	17259
GI	7263563	Score	440
Exons	16715..16753, 16866..17094, 17195..17259		
GI Descrip.	(AL161667) ribosomal protein [Arabidopsis thaliana]		

Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96094	Strand	-
Start	19929	End	20492
Name	OJ000301_21.0330.C10.o5.gs	Method	GENSCAN
Start	19929	End	20492
GI	none	Score	.54
Exons	19929..20067, 20428..20492		

Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96095	Strand	-
Start	23599	End	23932
Name	OJ000301_21.0330.C10.o7.gs	Method	GENSCAN
Start	23599	End	23932
GI	none	Score	.9
Exons	23599..23685, 23783..23932		

Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96096	Strand	-
Start	24534	End	35370
Name	OJ000301_21.0330.C10.o4.tm	Method	TBLASTX:Maize
Start	9616	End	9894
GI	none	Score	58
Exons	9616..9702, 9618..9656, 9694..9894, 9696..9893		

Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96096	Strand	-
Start	24534	End	35370
Name	OJ000301_21.0330.C10.o2.tm	Method	TBLASTX:Maize
Start	9955	End	10482
GI	none	Score	67
Exons	9955..10047, 9976..10065, 10029..10070, 10056..10229, 10060..10233, 10224..10457, 10237..10482		

Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96096	Strand	-
Start	24534	End	35370
Name	OJ000301_21.0330.C10.o3.tw	Method	TBLASTX:Wheat
Start	10926	End	12028
GI	none	Score	74
Exons	10926..10967, 11024..11083, 11030..11116, 11031..11114, 11183..11257, 11185..11268, 11187..11270, 11735..11857, 11752..11856, 11951..12028, 11952..11993, 11953..11994		

Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96096	Strand	-
Start	24534	End	35370
Name	OJ000301_21.0330.C10.o5.tm	Method	TBLASTX:Maize
Start	10966	End	12001
GI	none	Score	76

Exons 10966..10995, 11016..11111, 11020..11112, 11021..11116,  
11183..11257, 11185..11268, 11187..11270, 11735..11857,  
11752..11856, 11951..12001, 11952..11993, 11953..11994

Seq. No. 45450 Seq. ID OJ000301\_21.0330.C10  
Gene No. 96096 Strand -  
Start 24534 End 35370  
Name OJ000301\_21.0330.C10.o4.tc Method TBLASTX:Cress  
Start 11051 End 11991  
GI none Score 60  
Exons 11051..11116, 11061..11114, 11185..11262, 11187..11270,  
11767..11856, 11768..11857, 11950..11991, 11952..11990

Seq. No. 45450 Seq. ID OJ000301\_21.0330.C10  
Gene No. 96096 Strand -  
Start 24534 End 35370  
Name OJ000301\_21.0330.C10.o4.ts Method TBLASTX:Soybean  
Start 11060 End 11994  
GI none Score 107  
Exons 11060..11116, 11185..11265, 11187..11270, 11752..11856,  
11771..11857, 11950..11994, 11952..11993

Seq. No. 45450 Seq. ID OJ000301\_21.0330.C10  
Gene No. 96096 Strand -  
Start 24534 End 35370  
Name OJ000301\_21.0330.C10.o2.tc Method TBLASTX:Cress  
Start 16700 End 17259  
GI none Score 55  
Exons 16700..16753, 16716..16754, 16866..17099, 16867..17097,  
16966..17103, 17192..17257, 17194..17259, 17195..17254

Seq. No. 45450 Seq. ID OJ000301\_21.0330.C10  
Gene No. 96096 Strand -  
Start 24534 End 35370  
Name OJ000301\_21.0330.C10.o2.tw Method TBLASTX:Wheat  
Start 16709 End 17259  
GI none Score 64  
Exons 16709..16753, 16710..16754, 16710..16760, 16861..17094,  
16866..17099, 17193..17258, 17194..17259

Seq. No. 45450 Seq. ID OJ000301\_21.0330.C10  
Gene No. 96096 Strand -  
Start 24534 End 35370  
Name OJ000301\_21.0330.C10.o3.tm Method TBLASTX:Maize  
Start 16712 End 17259  
GI none Score 45  
Exons 16712..16753, 16713..16754, 16714..16755, 16866..17006,  
16866..17099, 16867..17097, 16966..17103, 17188..17259,  
17192..17257, 17194..17259

Seq. No. 45450 Seq. ID OJ000301\_21.0330.C10  
Gene No. 96096 Strand -  
Start 24534 End 35370  
Name OJ000301\_21.0330.C10.o3.ts Method TBLASTX:Soybean  
Start 16712 End 17259  
GI none Score 235  
Exons 16712..16753, 16858..17097, 16866..17099, 17194..17259,

17195..17257

Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96096	Strand	-
Start	24534	End	35370
Name	OJ000301_21.0330.C10.o7.gp	Method	AAT/GAP
Start	24411	End	24630
GI	3106928	Score	389
Exons	24411..24630		

Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96096	Strand	-
Start	24534	End	35370
Name	OJ000301_21.0330.C10.o2.ts	Method	TBLASTX:Soybean
Start	24528	End	25013
GI	none	Score	88
Exons	24528..24680, 24534..24680, 24535..24681, 24758..25012, 24759..25013		

Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96096	Strand	-
Start	24534	End	35370
Name	OJ000301_21.0330.C10.o1.tm	Method	TBLASTX:Maize
Start	24530	End	28022
GI	none	Score	112
Exons	24530..24679, 24532..24681, 24532..24678, 24534..24680, 24758..25078, 24759..25079, 24761..25081, 25168..25665, 25170..25652, 25183..25653, 25523..25654, 25524..25667, 25884..25991, 25889..25969, 25891..25992, 26141..26257, 26173..26256, 26177..26257, 26486..26563, 26920..27051, 26920..27051, 27229..27345, 27230..27346, 27237..27347, 27237..27350, 27485..27553, 27487..27552, 27960..28022		

Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96096	Strand	-
Start	24534	End	35370
Name	OJ000301_21.0330.C10.o5.np	Method	AAT/NAP
Start	24531	End	28043
GI	5453603	Score	1557
Exons	24531..24680, 24761..25076, 25168..25653, 25891..25967, 26140..26255, 26485..26556, 26922..27050, 27235..27346, 27487..27552, 27966..28043		

GI Descrip. chaperonin containing TCP1, subunit 2 (beta)  
gi|6094436|sp|P78371|TCPB\_HUMAN T-COMPLEX PROTEIN 1, BETA  
SUBUNIT (TCP-1-BETA) (CCT-BETA) gi|2559012 (AF026293) chaperonin  
containing t-complex polypeptide 1, beta subunit; CCT-beta [Homo  
sapiens] gi|4090929 (AF026166) chaperonin-containing TCP-1 beta  
subunit homolog [Homo sapiens]

Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96096	Strand	-
Start	24534	End	35370
Name	OJ000301_21.0330.C10.o1.tc	Method	TBLASTX:Cress
Start	24534	End	25416
GI	none	Score	89
Exons	24534..24677, 24534..24680, 24535..24702, 24755..24865, 24758..25078, 24759..25070, 24886..25071, 24896..25078,		

25164..25415, 25168..25416

Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96096	Strand	-
Start	24534	End	35370
Name	OJ000301_21.0330.C10.o8.gs	Method	GENSCAN
Start	24534	End	34631
GI	none	Score	.73
Exons	24534..24680, 24761..25076, 25168..25653, 25891..25967, 26140..26255, 26922..27050, 27235..27346, 27487..27552, 27966..28022, 30768..30946, 31524..31621, 33143..33293, 33369..33393, 33974..34111, 34220..34631		

Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96096	Strand	-
Start	24534	End	35370
Name	OJ000301_21.0330.C10.o1.tw	Method	TBLASTX:Wheat
Start	24758	End	25268
GI	none	Score	339
Exons	24758..25078, 24759..25079, 25164..25268, 25170..25265		

Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96096	Strand	-
Start	24534	End	35370
Name	OJ000301_21.0330.C10.o1.ts	Method	TBLASTX:Soybean
Start	25164	End	28031
GI	none	Score	253
Exons	25164..25457, 25164..25652, 25165..25665, 25884..25991, 25891..25992, 26144..26257, 26173..26259, 26478..26564, 26486..26563, 26918..27049, 26920..27051, 26932..27051, 27230..27346, 27237..27347, 27485..27553, 27487..27552, 27960..28031		

Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96096	Strand	-
Start	24534	End	35370
Name	OJ000301_21.0330.C10.o8.gp	Method	AAT/GAP
Start	25201	End	25959
GI	27376_1.R1084	Score	1002
Exons	25201..25653, 25891..25959		
GI Descrip.	'3046695/emb CAA18257.1  4.0e-09 (AL022224) putative protein [Arabidopsis thaliana]'		

Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96096	Strand	-
Start	24534	End	35370
Name	OJ000301_21.0330.C10.o3.tc	Method	TBLASTX:Cress
Start	25417	End	28022
GI	none	Score	154
Exons	25417..25539, 25417..25527, 25419..25538, 25538..25582, 25539..25652, 25540..25665, 25884..25991, 25890..25991, 25891..25992, 26144..26266, 26173..26259, 26174..26260, 26478..26558, 26479..26547, 26486..26563, 26493..26558, 26920..27051, 26920..27051, 26921..27052, 27230..27346, 27237..27347, 27485..27553, 27487..27552, 27960..28022		

Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
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Gene No.	96096	Strand	-
Start	24534	End	35370
Name	OJ000301_21.0330.C10.o9.gp	Method	AAT/GAP
Start	27028	End	28675
GI	3768427	Score	518
Exons	27028..27050, 27235..27346, 27487..27552, 27966..28022, 28626..28675		
GI Descrip.	1871210 5.0e-19 (U91327) T-complex protein 1, Beta subunit (TCP-1-BETA) [Homo sapiens]		

Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96096	Strand	-
Start	24534	End	35370
Name	OJ000301_21.0330.C10.o6.tm	Method	TBLASTX:Maize
Start	33217	End	34354
GI	none	Score	69
Exons	33217..33273, 33218..33274, 33218..33274, 33238..33288, 34034..34102, 34035..34112, 34233..34346, 34246..34284, 34274..34354		

Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96096	Strand	-
Start	24534	End	35370
Name	OJ000301_21.0330.C10.o6.np	Method	AAT/NAP
Start	33240	End	35370
GI	7485821	Score	227
Exons	33240..33293, 34034..34111, 34220..34446, 35351..35370		
GI Descrip.	hypothetical protein F1C12.211 - Arabidopsis thaliana gi 3046695 emb CAA18257.1  (AL022224) putative protein [Arabidopsis thaliana] gi 7268825 emb CAB79030.1  (AL161552) putative protein [Arabidopsis thaliana]		

Seq. No.	45450	Seq. ID	OJ000301_21.0330.C10
Gene No.	96096	Strand	-
Start	24534	End	35370
Name	OJ000301_21.0330.C10.o11.gp	Method	AAT/GAP
Start	34047	End	34480
GI	2431197	Score	534
Exons	34047..34111, 34220..34480		
GI Descrip.	3046695/emb CAA18257.1  4.0e-09 (AL022224) putative protein [Arabidopsis thaliana]		

Seq. No.	45451	Seq. ID	OJ000301_21.0330.C11
Gene No.	96097	Strand	+
Start	100	End	2070
Name	OJ000301_21.0330.C11.o1.gs	Method	GENSCAN
Start	100	End	2070
GI	none	Score	.45
Exons	100..205, 513..736, 1240..1529, 2001..2070		

Seq. No.	45451	Seq. ID	OJ000301_21.0330.C11
Gene No.	96098	Strand	-
Start	2176	End	11924
Name	OJ000301_21.0330.C11.o1.np	Method	AAT/NAP
Start	2176	End	11924
GI	6850866	Score	765
Exons	2176..2254, 7596..7805, 7925..8165, 9155..9619, 10059..10096,		

11892..11924  
GI Descrip. (AL132959) putative protein [Arabidopsis thaliana]

Seq. No.	45451	Seq. ID	OJ000301_21.0330.C11
Gene No.	96098	Strand	-
Start	2176	End	11924
Name	OJ000301_21.0330.C11.o1.tm	Method	TBLASTX:Maize
Start	7476	End	9469
GI	none	Score	142
Exons	7476..7499, 7560..7724, 7566..7823, 7567..7800, 7964..8224, 7965..8225, 9213..9392, 9215..9400, 9389..9469		

Seq. No.	45451	Seq. ID	OJ000301_21.0330.C11
Gene No.	96098	Strand	-
Start	2176	End	11924
Name	OJ000301_21.0330.C11.o3.gs	Method	GENSCAN
Start	7545	End	10217
GI	none	Score	.59
Exons	7545..7805, 7925..8231, 8882..8978, 9217..9619, 10059..10217		

Seq. No.	45451	Seq. ID	OJ000301_21.0330.C11
Gene No.	96098	Strand	-
Start	2176	End	11924
Name	OJ000301_21.0330.C11.o2.ts	Method	TBLASTX:Soybean
Start	7569	End	9265
GI	none	Score	147
Exons	7569..7814, 7648..7815, 7964..8176, 8046..8141, 9212..9265		

Seq. No.	45451	Seq. ID	OJ000301_21.0330.C11
Gene No.	96098	Strand	-
Start	2176	End	11924
Name	OJ000301_21.0330.C11.o1.gp	Method	AAT/GAP
Start	8145	End	9553
GI	none	Score	600
Exons	8145..8211, 9217..9553		

Seq. No.	45451	Seq. ID	OJ000301_21.0330.C11
Gene No.	96098	Strand	-
Start	2176	End	11924
Name	OJ000301_21.0330.C11.o1.ts	Method	TBLASTX:Soybean
Start	9272	End	9589
GI	none	Score	130
Exons	9272..9379, 9398..9589, 9462..9581		

Seq. No.	45451	Seq. ID	OJ000301_21.0330.C11
Gene No.	96098	Strand	-
Start	2176	End	11924
Name	OJ000301_21.0330.C11.o2.tm	Method	TBLASTX:Maize
Start	9470	End	10148
GI	none	Score	71
Exons	9470..9544, 9470..9622, 9474..9581, 10059..10148, 10060..10146		

Seq. No.	45451	Seq. ID	OJ000301_21.0330.C11
Gene No.	96098	Strand	-
Start	2176	End	11924
Name	OJ000301_21.0330.C11.o2.gp	Method	AAT/GAP
Start	9544	End	10337

GI	none	Score	670
Exons	9544..9619, 10059..10337		
Seq. No.	45451	Seq. ID	OJ000301_21.0330.C11
Gene No.	96098	Strand	-
Start	2176	End	11924
Name	OJ000301_21.0330.C11.o3.gp	Method	AAT/GAP
Start	10948	End	11042
GI	LIB3477-003-P1-K1-E9	Score	126
Exons	10948..11042		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	45452	Seq. ID	OJ000301_21.0330.C12
Gene No.	96099	Strand	-
Start	1	End	4074
Name	OJ000301_21.0330.C12.o1.np	Method	AAT/NAP
Start	1	End	3600
GI	6723390	Score	796
Exons	1..36, 240..377, 538..753, 884..964, 1051..1137, 1248..1859, 3304..3456, 3523..3600		
GI Descrip.	(AL132956) putative protein [Arabidopsis thaliana]		

Seq. No.	45452	Seq. ID	OJ000301_21.0330.C12
Gene No.	96099	Strand	-
Start	1	End	4074
Name	OJ000301_21.0330.C12.o1.tc	Method	TBLASTX:Cress
Start	228	End	932
GI	none	Score	153
Exons	228..386, 235..375, 237..386, 526..732, 536..727, 537..728, 718..756, 891..932		

Seq. No.	45452	Seq. ID	OJ000301_21.0330.C12
Gene No.	96099	Strand	-
Start	1	End	4074
Name	OJ000301_21.0330.C12.o1.ts	Method	TBLASTX:Soybean
Start	231	End	1301
GI	none	Score	100
Exons	231..374, 238..375, 244..381, 535..711, 536..712, 1078..1137, 1251..1301		

Seq. No.	45452	Seq. ID	OJ000301_21.0330.C12
Gene No.	96099	Strand	-
Start	1	End	4074
Name	OJ000301_21.0330.C12.o1.gs	Method	GENSCAN
Start	240	End	4074
GI	none	Score	.87
Exons	240..377, 538..753, 884..975, 1071..1137, 1248..1859, 3304..3568, 3619..3908, 3951..4074		

Seq. No.	45452	Seq. ID	OJ000301_21.0330.C12
Gene No.	96099	Strand	-
Start	1	End	4074
Name	OJ000301_21.0330.C12.o1.tm	Method	TBLASTX:Maize
Start	240	End	636
GI	none	Score	164

Exons 240..374, 241..375, 527..628, 537..632, 538..636, 542..631

Seq. No.	45452	Seq. ID	OJ000301_21.0330.C12
Gene No.	96099	Strand	-
Start	1	End	4074
Name	OJ000301_21.0330.C12.o2.tc	Method	TBLASTX:Cress
Start	1594	End	1970
GI	none	Score	63
Exons	1594..1755, 1611..1751, 1767..1886, 1896..1970		

Seq. No.	45453	Seq. ID	OJ000301_21.0330.C13
Gene No.	96100	Strand	+
Start	371	End	1818
Name	OJ000301_21.0330.C13.o1.gs	Method	GENSCAN
Start	371	End	1818
GI	none	Score	.8
Exons	371..447, 1619..1818		

Seq. No.	45454	Seq. ID	OJ000301_21.0330.C14
Gene No.	96101	Strand	-
Start	43	End	2088
Name	OJ000301_21.0330.C14.o1.gs	Method	GENSCAN
Start	43	End	2088
GI	none	Score	.42
Exons	43..207, 326..399, 2000..2088		

Seq. No.	45454	Seq. ID	OJ000301_21.0330.C14
Gene No.	96102	Strand	-
Start	2701	End	2826
Name	OJ000301_21.0330.C14.o1.np	Method	AAT/NAP
Start	2701	End	2826
GI	7340920	Score	161
Exons	2701..2826		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	45455	Seq. ID	OJ000301_21.0330.C15
Gene No.	96103	Strand	+
Start	214	End	5697
Name	OJ000301_21.0330.C15.o1.gp	Method	AAT/GAP
Start	214	End	4727
GI	9146_1.R1084	Score	2842
Exons	214..462, 822..885, 975..1079, 1308..1409, 1668..1718, 1817..1878, 2163..2256, 2341..2405, 2628..2822, 2908..3027, 3193..3263, 3857..4082, 4212..4262, 4566..4727		
GI Descrip.	'2129826/pir  S63668 0.0e+00 dynamin-like protein phragmoplastin 5 - soybean >gi_1218004 (U36430) SDL5A [Glycine max]'		

Seq. No.	45455	Seq. ID	OJ000301_21.0330.C15
Gene No.	96103	Strand	+
Start	214	End	5697
Name	OJ000301_21.0330.C15.o1.gs	Method	GENSCAN
Start	294	End	5436
GI	none	Score	.89
Exons	294..554, 822..885, 1308..1409, 1817..1878, 2194..2236, 2341..2405, 2628..2822, 2908..3027, 3193..3263, 3857..4082, 4212..4262, 4566..4794, 5032..5171, 5308..5436		



Seq. No.	45455	Seq. ID	OJ000301_21.0330.C15
Gene No.	96103	Strand	+
Start	214	End	5697
Name	OJ000301_21.0330.C15.o1.np	Method	AAT/NAP
Start	334	End	5433
GI	2129826	Score	2224
Exons	334..462, 822..885, 975..1079, 1308..1409, 1668..1718, 1817..1878, 2163..2249, 2337..2405, 2628..2822, 2908..3027, 3193..3263, 3857..4082, 4212..4262, 4566..4794, 5032..5171, 5308..5433		
GI Descrip.	phragmoplastin 5 - soybean gi 1218004 gb AAC49183.1  (U36430) SDL5A [Glycine max]		

Seq. No.	45455	Seq. ID	OJ000301_21.0330.C15
Gene No.	96103	Strand	+
Start	214	End	5697
Name	OJ000301_21.0330.C15.o2.gp	Method	AAT/GAP
Start	5013	End	5697
GI	2280_1.R1084	Score	1012
Exons	5013..5171, 5308..5697		
GI Descrip.	'2129825/pir  S63667 1.0e-37 dynamin-like protein phragmoplastin 12 - soybean >gi_1217994 (U25547) SDL [Glycine max]'		

Seq. No.	45455	Seq. ID	OJ000301_21.0330.C15
Gene No.	96104	Strand	-
Start	6384	End	7310
Name	OJ000301_21.0330.C15.o3.tm	Method	TBLASTX:Maize
Start	231	End	1078
GI	none	Score	210
Exons	231..278, 333..458, 334..462, 780..872, 802..873, 805..885, 821..904, 821..889, 973..1077, 974..1078		

Seq. No.	45455	Seq. ID	OJ000301_21.0330.C15
Gene No.	96104	Strand	-
Start	6384	End	7310
Name	OJ000301_21.0330.C15.o1.tc	Method	TBLASTX:Cress
Start	333	End	5435
GI	none	Score	210
Exons	333..458, 334..462, 821..889, 858..890, 973..1020, 974..1021, 1018..1077, 1019..1078, 1297..1422, 1307..1408, 1645..1716, 1646..1717, 1815..1877, 1816..1878, 2108..2248, 2160..2249, 2336..2404, 2337..2408, 2622..2822, 2627..2818, 2631..2822, 2907..3035, 2908..3036, 3192..3263, 3193..3264, 3845..4084, 3858..4097, 4212..4259, 4493..4792, 4544..4795, 4551..4802, 5027..5170, 5031..5201, 5040..5174, 5293..5427, 5307..5435		

Seq. No.	45455	Seq. ID	OJ000301_21.0330.C15
Gene No.	96104	Strand	-
Start	6384	End	7310
Name	OJ000301_21.0330.C15.o1.ts	Method	TBLASTX:Soybean
Start	333	End	5435
GI	none	Score	213
Exons	333..461, 334..462, 818..889, 858..890, 973..1029, 974..1021, 1018..1077, 1019..1078, 1291..1422, 1313..1408, 1645..1716, 1646..1717, 1798..1863, 1815..1886, 1816..1878, 1972..2007, 2123..2248, 2160..2249, 2337..2408, 2339..2404, 2599..2820, 2622..2822, 2625..2801, 2627..2821, 2896..2988, 2904..3035,		

2907..3035, 2908..3060, 3192..3263, 3193..3264, 3193..3264,  
3845..4084, 3854..4042, 3858..4097, 4212..4259, 4548..4742,  
4551..4796, 4565..4798, 5027..5152, 5027..5176, 5031..5201,  
5293..5427, 5301..5435

Seq. No.	45455	Seq. ID	OJ000301_21.0330.C15
Gene No.	96104	Strand	-
Start	6384	End	7310
Name	OJ000301_21.0330.C15.o1.tm	Method	TBLASTX:Maize
Start	1315	End	5694
GI	none	Score	126
Exons	1315..1407, 1322..1405, 1323..1412, 1657..1716, 1658..1717, 1667..1717, 1816..1878, 1817..1885, 1972..2007, 2160..2252, 2160..2249, 2338..2409, 2340..2408, 2622..2822, 2625..2810, 2627..2821, 2897..3025, 2901..3032, 2904..3026, 2908..3060, 3192..3263, 3192..3263, 3193..3264, 3196..3264, 3845..4057, 3845..4084, 3858..4097, 4211..4264, 4212..4262, 4551..4802, 4553..4795, 5027..5170, 5031..5174, 5031..5201, 5032..5175, 5293..5427, 5301..5441, 5306..5443, 5315..5515, 5492..5539, 5494..5538, 5529..5585, 5536..5670, 5547..5627, 5572..5661, 5577..5663, 5665..5694		

Seq. No.	45455	Seq. ID	OJ000301_21.0330.C15
Gene No.	96104	Strand	-
Start	6384	End	7310
Name	OJ000301_21.0330.C15.o2.tm	Method	TBLASTX:Maize
Start	6379	End	7193
GI	none	Score	104
Exons	6379..6465, 6381..6467, 6545..6592, 6561..6590, 6891..6989, 6892..6990, 6896..6997, 6899..6997, 6921..6998, 7064..7177, 7077..7151, 7079..7177, 7083..7193		

Seq. No.	45455	Seq. ID	OJ000301_21.0330.C15
Gene No.	96104	Strand	-
Start	6384	End	7310
Name	OJ000301_21.0330.C15.o2.gs	Method	GENSCAN
Start	6384	End	6988
GI	none	Score	.85
Exons	6384..6464, 6548..6593, 6921..6988		

Seq. No.	45455	Seq. ID	OJ000301_21.0330.C15
Gene No.	96104	Strand	-
Start	6384	End	7310
Name	OJ000301_21.0330.C15.o2.np	Method	AAT/NAP
Start	6387	End	7310
GI	7487863	Score	199
Exons	6387..6502, 6917..6988, 7052..7174, 7289..7310		
GI Descrip.	hypothetical protein T9E8.140 - Arabidopsis thaliana gi 4584545 emb CAB40775.1  (AL049608) putative protein [Arabidopsis thaliana] gi 7268043 emb CAB78382.1  (AL161536) putative protein [Arabidopsis thaliana]		

Seq. No.	45456	Seq. ID	OJ000301_21.0330.C16
Gene No.	96105	Strand	+
Start	5293	End	5613
Name	OJ000301_21.0330.C16.o2.gs	Method	GENSCAN
Start	5293	End	5613

GI	none	Score	.78
Exons	5293..5613		
Seq. No.	45456	Seq. ID	OJ000301_21.0330.C16
Gene No.	96106	Strand	+
Start	12641	End	12731
Name	OJ000301_21.0330.C16.o6.gp	Method	AAT/GAP
Start	12641	End	12731
GI	90742_1.R1084	Score	107
Exons	12641..12731		
GI Descrip.	'5734616/dbj AP000391.1 AP000391 4.0e-29 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	45456	Seq. ID	OJ000301_21.0330.C16
Gene No.	96107	Strand	-
Start	95	End	3095
Name	OJ000301_21.0330.C16.o1.gs	Method	GENSCAN
Start	95	End	3095
GI	none	Score	.84
Exons	95..194, 451..518, 885..993, 1189..1257, 1666..1727, 2003..2075, 2159..2211, 2409..2462, 2579..2676, 2727..2804, 2889..3095		

Seq. No.	45456	Seq. ID	OJ000301_21.0330.C16
Gene No.	96107	Strand	-
Start	95	End	3095
Name	OJ000301_21.0330.C16.o1.np	Method	AAT/NAP
Start	95	End	2957
GI	7487863	Score	445
Exons	95..194, 1189..1257, 1666..1727, 2003..2075, 2159..2211, 2409..2462, 2579..2628, 2727..2804, 2889..2957		
GI Descrip.	hypothetical protein T9E8.140 - Arabidopsis thaliana gi 4584545 emb CAB40775.1  (AL049608) putative protein [Arabidopsis thaliana] gi 7268043 emb CAB78382.1  (AL161536) putative protein [Arabidopsis thaliana]		

Seq. No.	45456	Seq. ID	OJ000301_21.0330.C16
Gene No.	96107	Strand	-
Start	95	End	3095
Name	OJ000301_21.0330.C16.o1.gp	Method	AAT/GAP
Start	2758	End	3066
GI	702518	Score	392
Exons	2758..2804, 2889..3066		

Seq. No.	45456	Seq. ID	OJ000301_21.0330.C16
Gene No.	96107	Strand	-
Start	95	End	3095
Name	OJ000301_21.0330.C16.o2.gp	Method	AAT/GAP
Start	2759	End	3066
GI	702518	Score	390
Exons	2759..2804, 2889..3066		

Seq. No.	45456	Seq. ID	OJ000301_21.0330.C16
Gene No.	96108	Strand	-
Start	3962	End	5800
Name	OJ000301_21.0330.C16.o3.gp	Method	AAT/GAP
Start	3962	End	5800
GI	1088_2.R1084	Score	750

Exons 3962..4108, 5156..5208, 5329..5557, 5669..5800  
 GI Descrip. '1350742/sp|P49180|R35A CAEEL 5.0e-28 PROBABLE 60S RIBOSOMAL  
 PROTEIN L35A >gi\_1086831 (U41264) coded for by C. elegans cDNA  
 yk64g10.5; coded for by C. elegans cDNA yk51f3.5; coded for by  
 C. elegans cDNA yk115e7.3; coded for by C. elegans cDNA  
 yk99d1.3; coded for by C. elegans cDNA yk99d1.5; coded for by C.  
 elegans cDNA yk64g1'

Seq. No.	45456	Seq. ID	OJ000301_21.0330.C16
Gene No.	96108	Strand	-
Start	3962	End	5800
Name	OJ000301_21.0330.C16.o2.np	Method	AAT/NAP
Start	5170	End	5736
GI	6939227	Score	439
Exons	5170..5208, 5329..5557, 5669..5736		
GI Descrip.	(AC020579) putative ribosomal protein [Arabidopsis thaliana]		

Seq. No.	45456	Seq. ID	OJ000301_21.0330.C16
Gene No.	96109	Strand	-
Start	7876	End	15531
Name	OJ000301_21.0330.C16.o1.tw	Method	TBLASTX:Wheat
Start	5152	End	5737
GI	none	Score	60
Exons	5152..5202, 5167..5208, 5168..5209, 5324..5557, 5329..5562, 5634..5726, 5666..5737, 5667..5726, 5678..5737		

Seq. No.	45456	Seq. ID	OJ000301_21.0330.C16
Gene No.	96109	Strand	-
Start	7876	End	15531
Name	OJ000301_21.0330.C16.o2.tm	Method	TBLASTX:Maize
Start	5158	End	5733
GI	none	Score	56
Exons	5158..5202, 5158..5208, 5329..5562, 5330..5560, 5643..5726, 5666..5731, 5667..5714, 5668..5733, 5669..5731		

Seq. No.	45456	Seq. ID	OJ000301_21.0330.C16
Gene No.	96109	Strand	-
Start	7876	End	15531
Name	OJ000301_21.0330.C16.o2.tc	Method	TBLASTX:Cress
Start	5164	End	5734
GI	none	Score	53
Exons	5164..5208, 5165..5209, 5329..5562, 5330..5560, 5668..5733, 5669..5734		

Seq. No.	45456	Seq. ID	OJ000301_21.0330.C16
Gene No.	96109	Strand	-
Start	7876	End	15531
Name	OJ000301_21.0330.C16.o1.ts	Method	TBLASTX:Soybean
Start	5167	End	5737
GI	none	Score	235
Exons	5167..5208, 5321..5560, 5329..5562, 5668..5733, 5669..5737		

Seq. No.	45456	Seq. ID	OJ000301_21.0330.C16
Gene No.	96109	Strand	-
Start	7876	End	15531
Name	OJ000301_21.0330.C16.o3.gs	Method	GENSCAN
Start	7876	End	15436

GI	none	Score	.54
Exons	7876..8285, 10396..10636, 10757..11011, 11161..11446, 11577..11882, 14604..14788, 14942..15436		

Seq. No.	45456	Seq. ID	OJ000301_21.0330.C16
Gene No.	96109	Strand	-
Start	7876	End	15531
Name	OJ000301_21.0330.C16.o4.gp	Method	AAT/GAP
Start	8123	End	8384
GI	none	Score	504
Exons	8123..8384		

Seq. No.	45456	Seq. ID	OJ000301_21.0330.C16
Gene No.	96109	Strand	-
Start	7876	End	15531
Name	OJ000301_21.0330.C16.o1.tm	Method	TBLASTX:Maize
Start	10370	End	15531
GI	none	Score	148
Exons	10370..10423, 10405..10605, 10435..10629, 10439..10636, 10442..10630, 10449..10640, 10452..10637, 10752..11012, 10756..11013, 10757..11014, 10847..11041, 11161..11430, 11161..11430, 11294..11431, 11578..11829, 11585..11836, 11588..11881, 11589..11876, 11593..11883, 11933..11998, 11974..12012, 11977..12006, 12006..12053, 12006..12053, 12007..12054, 12047..12154, 12051..12167, 12054..12155, 12091..12249, 12132..12251, 12157..12252, 14534..14791, 14559..14795, 14568..14789, 14570..14791, 15050..15529, 15060..15143, 15061..15147, 15062..15529, 15133..15531		

Seq. No.	45456	Seq. ID	OJ000301_21.0330.C16
Gene No.	96109	Strand	-
Start	7876	End	15531
Name	OJ000301_21.0330.C16.o3.np	Method	AAT/NAP
Start	10373	End	15531
GI	4008156	Score	2884
Exons	10373..10636, 10757..11011, 11161..11428, 11577..11882, 11975..12248, 14570..14788, 14942..14970, 15007..15531		
GI Descrip.	(AB008845) NADH dependent Glutamate Synthase [Oryza sativa]		

Seq. No.	45456	Seq. ID	OJ000301_21.0330.C16
Gene No.	96109	Strand	-
Start	7876	End	15531
Name	OJ000301_21.0330.C16.o1.tc	Method	TBLASTX:Cress
Start	10433	End	14657
GI	none	Score	88
Exons	10433..10630, 10433..10636, 10455..10637, 10760..10849, 10761..10850, 10854..11012, 10856..11014, 11133..11381, 11161..11430, 11161..11430, 11578..11670, 11579..11833, 11588..11881, 11592..11882, 11733..11885, 11974..12012, 11974..12012, 12006..12053, 12007..12054, 12047..12154, 12054..12152, 12075..12167, 12097..12165, 12132..12236, 12157..12234, 12158..12235, 14565..14642, 14570..14656, 14577..14657		

Seq. No.	45456	Seq. ID	OJ000301_21.0330.C16
Gene No.	96109	Strand	-
Start	7876	End	15531

Name	OJ000301_21.0330.C16.o2.ts	Method	TBLASTX:Soybean
Start	10442	End	11870
GI	none	Score	163
Exons	10442..10636, 10449..10637, 10752..10850, 10760..10849, 10854..11012, 10856..11014, 11161..11415, 11161..11430, 11300..11431, 11571..11864, 11579..11833, 11588..11869, 11589..11870		

Seq. No.	45456	Seq. ID	OJ000301_21.0330.C16
Gene No.	96109	Strand	-
Start	7876	End	15531
Name	OJ000301_21.0330.C16.o5.gp	Method	AAT/GAP
Start	10531	End	11650
GI	22374_1.R1084	Score	1269
Exons	10531..10636, 10757..11011, 11161..11428, 11577..11650		
GI Descrip.	'4008156/dbj BAA35120.1  3.0e-64 (AB008845) NADH dependent Glutamate Synthase [Oryza sativa]'		

Seq. No.	45456	Seq. ID	OJ000301_21.0330.C16
Gene No.	96109	Strand	-
Start	7876	End	15531
Name	OJ000301_21.0330.C16.o2.tw	Method	TBLASTX:Wheat
Start	11272	End	11442
GI	none	Score	135
Exons	11272..11427, 11274..11423, 11299..11442, 11300..11440		

Seq. No.	45456	Seq. ID	OJ000301_21.0330.C16
Gene No.	96109	Strand	-
Start	7876	End	15531
Name	OJ000301_21.0330.C16.o4.ts	Method	TBLASTX:Soybean
Start	11974	End	15119
GI	none	Score	45
Exons	11974..12012, 11975..12013, 12006..12053, 12010..12054, 12047..12154, 12054..12155, 12054..12167, 12132..12236, 12160..12234, 12163..12279, 14542..14727, 14568..14789, 14568..14636, 14569..14742, 14570..14788, 15059..15118, 15060..15119		

Seq. No.	45456	Seq. ID	OJ000301_21.0330.C16
Gene No.	96109	Strand	-
Start	7876	End	15531
Name	OJ000301_21.0330.C16.o3.tc	Method	TBLASTX:Cress
Start	15077	End	15379
GI	none	Score	162
Exons	15077..15379, 15095..15373, 15240..15377		

Seq. No.	45456	Seq. ID	OJ000301_21.0330.C16
Gene No.	96109	Strand	-
Start	7876	End	15531
Name	OJ000301_21.0330.C16.o3.ts	Method	TBLASTX:Soybean
Start	15239	End	15499
GI	none	Score	313
Exons	15239..15283, 15284..15499, 15285..15497		

Seq. No.	45456	Seq. ID	OJ000301_21.0330.C16
Gene No.	96109	Strand	-
Start	7876	End	15531

Name	OJ000301_21.0330.C16.o7.gp	Method	AAT/GAP
Start	15320	End	15531
GI	uC-osrocyp017g05b1	Score	424
Exons	15320..15531		
GI Descrip.	'4008156/dbj BAA35120.1  2.0e-71 (AB008845) NADH dependent Glutamate Synthase [Oryza sativa]'		

Seq. No.	45457	Seq. ID	OJ000301_21.0330.C17
Gene No.	96110	Strand	-
Start	1	End	3017
Name	OJ000301_21.0330.C17.o1.np	Method	AAT/NAP
Start	1	End	3017
GI	4008156	Score	1855
Exons	1..141, 350..511, 636..790, 2012..2889, 2986..3017		
GI Descrip.	(AB008845) NADH dependent Glutamate Synthase [Oryza sativa]		

Seq. No.	45457	Seq. ID	OJ000301_21.0330.C17
Gene No.	96110	Strand	-
Start	1	End	3017
Name	OJ000301_21.0330.C17.o1.tw	Method	TBLASTX:Wheat
Start	7	End	514
GI	none	Score	96
Exons	7..153, 11..133, 353..511, 354..470, 368..514		

Seq. No.	45457	Seq. ID	OJ000301_21.0330.C17
Gene No.	96110	Strand	-
Start	1	End	3017
Name	OJ000301_21.0330.C17.o2.tc	Method	TBLASTX:Cress
Start	7	End	2844
GI	none	Score	110
Exons	7..153, 11..154, 353..511, 354..476, 636..725, 637..729, 2454..2630, 2688..2825, 2689..2751, 2815..2844		

Seq. No.	45457	Seq. ID	OJ000301_21.0330.C17
Gene No.	96110	Strand	-
Start	1	End	3017
Name	OJ000301_21.0330.C17.o1.gs	Method	GENSCAN
Start	72	End	2922
GI	none	Score	.68
Exons	72..141, 350..511, 1230..1330, 2012..2922		

Seq. No.	45457	Seq. ID	OJ000301_21.0330.C17
Gene No.	96110	Strand	-
Start	1	End	3017
Name	OJ000301_21.0330.C17.o2.ts	Method	TBLASTX:Soybean
Start	97	End	2063
GI	none	Score	150
Exons	97..141, 350..511, 354..521, 367..513, 636..791, 640..792, 2010..2063		

Seq. No.	45457	Seq. ID	OJ000301_21.0330.C17
Gene No.	96110	Strand	-
Start	1	End	3017
Name	OJ000301_21.0330.C17.o1.tm	Method	TBLASTX:Maize
Start	100	End	689
GI	none	Score	172
Exons	100..141, 350..514, 350..511, 635..688, 635..688, 636..689		

Seq. No.	45457	Seq. ID	OJ000301_21.0330.C17
Gene No.	96110	Strand	-
Start	1	End	3017
Name	OJ000301_21.0330.C17.o1.tc	Method	TBLASTX:Cress
Start	2040	End	2452
GI	none	Score	339
Exons	2040..2450, 2044..2451, 2168..2452		

Seq. No.	45457	Seq. ID	OJ000301_21.0330.C17
Gene No.	96110	Strand	-
Start	1	End	3017
Name	OJ000301_21.0330.C17.o1.ts	Method	TBLASTX:Soybean
Start	2181	End	2539
GI	none	Score	337
Exons	2181..2534, 2185..2535, 2189..2539		

Seq. No.	45457	Seq. ID	OJ000301_21.0330.C17
Gene No.	96110	Strand	-
Start	1	End	3017
Name	OJ000301_21.0330.C17.o2.tm	Method	TBLASTX:Maize
Start	2382	End	2736
GI	none	Score	95
Exons	2382..2630, 2395..2631, 2688..2735, 2689..2736		

Seq. No.	45457	Seq. ID	OJ000301_21.0330.C17
Gene No.	96110	Strand	-
Start	1	End	3017
Name	OJ000301_21.0330.C17.o3.ts	Method	TBLASTX:Soybean
Start	2653	End	2877
GI	none	Score	224
Exons	2653..2877, 2653..2856, 2655..2876		

Seq. No.	45458	Seq. ID	OJ000301_21.0330.C18
Gene No.	96111	Strand	+
Start	5682	End	5867
Name	OJ000301_21.0330.C18.o2.gs	Method	GENSCAN
Start	5682	End	5867
GI	none	Score	.69
Exons	5682..5867		

Seq. No.	45458	Seq. ID	OJ000301_21.0330.C18
Gene No.	96112	Strand	+
Start	11161	End	11403
Name	OJ000301_21.0330.C18.o4.gs	Method	GENSCAN
Start	11161	End	11403
GI	none	Score	.6
Exons	11161..11403		

Seq. No.	45458	Seq. ID	OJ000301_21.0330.C18
Gene No.	96113	Strand	-
Start	1	End	4424
Name	OJ000301_21.0330.C18.o1.np	Method	AAT/NAP
Start	1	End	4424
GI	4008156	Score	2562
Exons	1..42, 335..808, 884..948, 1048..1391, 1481..1660, 1911..2014, 2138..2247, 2748..2844, 3145..3245, 3340..3488, 3602..3719,		



3822..3941, 4056..4424  
 GI Descrip. (AB008845) NADH dependent Glutamate Synthase [Oryza sativa]

Seq. No.	45458	Seq. ID	OJ000301_21.0330.C18
Gene No.	96113	Strand	-
Start	1	End	4424
Name	OJ000301_21.0330.C18.o1.tc	Method	TBLASTX:Cress
Start	301	End	4136
GI	none	Score	125
Exons	301..423, 499..813, 584..802, 1135..1389, 1136..1255, 1485..1553, 1569..1667, 2137..2244, 2138..2239, 3352..3477, 3822..3941, 4053..4136		

Seq. No.	45458	Seq. ID	OJ000301_21.0330.C18
Gene No.	96113	Strand	-
Start	1	End	4424
Name	OJ000301_21.0330.C18.o1.gs	Method	GENSCAN
Start	339	End	4424
GI	none	Score	.77
Exons	339..808, 884..948, 1048..1391, 1481..1660, 1911..2014, 2138..2247, 2748..2844, 3145..3245, 3340..3492, 3606..3719, 3807..3941, 4056..4170, 4279..4424		

Seq. No.	45458	Seq. ID	OJ000301_21.0330.C18
Gene No.	96113	Strand	-
Start	1	End	4424
Name	OJ000301_21.0330.C18.o3.ts	Method	TBLASTX:Soybean
Start	340	End	511
GI	none	Score	145
Exons	340..510, 341..511		

Seq. No.	45458	Seq. ID	OJ000301_21.0330.C18
Gene No.	96113	Strand	-
Start	1	End	4424
Name	OJ000301_21.0330.C18.o2.ts	Method	TBLASTX:Soybean
Start	557	End	934
GI	none	Score	327
Exons	557..808, 562..822, 872..934, 883..927		

Seq. No.	45458	Seq. ID	OJ000301_21.0330.C18
Gene No.	96113	Strand	-
Start	1	End	4424
Name	OJ000301_21.0330.C18.o1.gp	Method	AAT/GAP
Start	917	End	1673
GI	uC-osrocyp007e03b1	Score	1057
Exons	917..948, 1048..1391, 1481..1673		
GI Descrip.	'4008156/dbj BAA35120.1  1.0e-80 (AB008845) NADH dependent Glutamate Synthase [Oryza sativa]'		

Seq. No.	45458	Seq. ID	OJ000301_21.0330.C18
Gene No.	96113	Strand	-
Start	1	End	4424
Name	OJ000301_21.0330.C18.o1.ts	Method	TBLASTX:Soybean
Start	1108	End	1574
GI	none	Score	218
Exons	1108..1395, 1125..1274, 1126..1389, 1313..1390, 1477..1572, 1482..1574		

Seq. No.	45459	Seq. ID	OJ000301_20.0330.C1
Gene No.	96114	Strand	+
Start	7096	End	14972
Name	OJ000301_20.0330.C1.o3.gs	Method	GENSCAN
Start	7096	End	14972
GI	none	Score	.42
Exons	7096..7127, 7884..7956, 8102..8226, 8932..11182, 11246..13354, 13452..14972		

Seq. No.	45459	Seq. ID	OJ000301_20.0330.C1
Gene No.	96114	Strand	+
Start	7096	End	14972
Name	OJ000301_20.0330.C1.o1.np	Method	AAT/NAP
Start	8823	End	14969
GI	7228457	Score	9594
Exons	8823..9188, 9250..11182, 11246..12080, 12203..13354, 13419..14969		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	45459	Seq. ID	OJ000301_20.0330.C1
Gene No.	96115	Strand	-
Start	88	End	3037
Name	OJ000301_20.0330.C1.o1.gs	Method	GENSCAN
Start	88	End	3037
GI	none	Score	.5
Exons	88..274, 688..769, 2081..2149, 2339..3037		

Seq. No.	45459	Seq. ID	OJ000301_20.0330.C1
Gene No.	96116	Strand	-
Start	3495	End	5275
Name	OJ000301_20.0330.C1.o2.gs	Method	GENSCAN
Start	3495	End	5275
GI	none	Score	.72
Exons	3495..3644, 5234..5275		

Seq. No.	45459	Seq. ID	OJ000301_20.0330.C1
Gene No.	96117	Strand	-
Start	15593	End	18058
Name	OJ000301_20.0330.C1.o6.tw	Method	TBLASTX:Wheat
Start	9316	End	9868
GI	none	Score	34
Exons	9316..9351, 9476..9523, 9530..9628, 9535..9627, 9595..9834, 9611..9868		

Seq. No.	45459	Seq. ID	OJ000301_20.0330.C1
Gene No.	96117	Strand	-
Start	15593	End	18058
Name	OJ000301_20.0330.C1.o4.tm	Method	TBLASTX:Maize
Start	9518	End	9766
GI	none	Score	197
Exons	9518..9766, 9520..9765		

Seq. No.	45459	Seq. ID	OJ000301_20.0330.C1
Gene No.	96117	Strand	-

Start	15593	End	18058
Name	OJ000301_20.0330.C1.o5.tw	Method	TBLASTX:Wheat
Start	9876	End	13333
GI	none	Score	234
Exons	9876..9929, 12875..13096, 12899..13150, 12964..13149, 13184..13333, 13195..13332		

Seq. No.	45459	Seq. ID	OJ000301_20.0330.C1
Gene No.	96117	Strand	-
Start	15593	End	18058
Name	OJ000301_20.0330.C1.o3.tw	Method	TBLASTX:Wheat
Start	10603	End	11089
GI	none	Score	388
Exons	10603..10740, 10604..11089, 10798..11058		

Seq. No.	45459	Seq. ID	OJ000301_20.0330.C1
Gene No.	96117	Strand	-
Start	15593	End	18058
Name	OJ000301_20.0330.C1.o1.tw	Method	TBLASTX:Wheat
Start	11253	End	11716
GI	none	Score	186
Exons	11253..11696, 11254..11709, 11255..11716, 11255..11710		

Seq. No.	45459	Seq. ID	OJ000301_20.0330.C1
Gene No.	96117	Strand	-
Start	15593	End	18058
Name	OJ000301_20.0330.C1.o2.ts	Method	TBLASTX:Soybean
Start	11294	End	11659
GI	none	Score	120
Exons	11294..11518, 11525..11659		

Seq. No.	45459	Seq. ID	OJ000301_20.0330.C1
Gene No.	96117	Strand	-
Start	15593	End	18058
Name	OJ000301_20.0330.C1.o1.tm	Method	TBLASTX:Maize
Start	11384	End	11740
GI	none	Score	392
Exons	11384..11740, 11419..11730, 11435..11740		

Seq. No.	45459	Seq. ID	OJ000301_20.0330.C1
Gene No.	96117	Strand	-
Start	15593	End	18058
Name	OJ000301_20.0330.C1.o3.tm	Method	TBLASTX:Maize
Start	11767	End	12151
GI	none	Score	353
Exons	11767..12132, 11768..12151		

Seq. No.	45459	Seq. ID	OJ000301_20.0330.C1
Gene No.	96117	Strand	-
Start	15593	End	18058
Name	OJ000301_20.0330.C1.o2.tw	Method	TBLASTX:Wheat
Start	11824	End	12244
GI	none	Score	479
Exons	11824..12237, 11825..12244		

Seq. No.	45459	Seq. ID	OJ000301_20.0330.C1
Gene No.	96117	Strand	-

Start 15593  
 Name OJ000301\_20.0330.C1.o1.ts  
 Start 11903  
 GI none  
 Exons 11903..12274, 11920..12063

End 18058  
 Method TBLASTX:Soybean  
 End 12274  
 Score 267

Seq. No. 45459  
 Gene No. 96117  
 Start 15593  
 Name OJ000301\_20.0330.C1.o2.tm  
 Start 13839  
 GI none  
 Exons 13839..14162, 13856..14149, 13959..14171

Seq. ID OJ000301\_20.0330.C1  
 Strand -  
 End 18058  
 Method TBLASTX:Maize  
 End 14171  
 Score 361

Seq. No. 45459  
 Gene No. 96117  
 Start 15593  
 Name OJ000301\_20.0330.C1.o4.tw  
 Start 13976  
 GI none  
 Exons 13976..14032, 13977..14357, 13980..14318, 14078..14326

Seq. ID OJ000301\_20.0330.C1  
 Strand -  
 End 18058  
 Method TBLASTX:Wheat  
 End 14357  
 Score 372

Seq. No. 45459  
 Gene No. 96117  
 Start 15593  
 Name OJ000301\_20.0330.C1.o7.tw  
 Start 14358  
 GI none  
 Exons 14358..14648, 14360..14668, 14363..14641, 14834..14956, 14835..14960, 17617..17718

Seq. ID OJ000301\_20.0330.C1  
 Strand -  
 End 18058  
 Method TBLASTX:Wheat  
 End 17718  
 Score 267

Seq. No. 45459  
 Gene No. 96117  
 Start 15593  
 Name OJ000301\_20.0330.C1.o5.tm  
 Start 14829  
 GI none  
 Exons 14829..14972, 14834..14968

Seq. ID OJ000301\_20.0330.C1  
 Strand -  
 End 18058  
 Method TBLASTX:Maize  
 End 14972  
 Score 184

Seq. No. 45459  
 Gene No. 96117  
 Start 15593  
 Name OJ000301\_20.0330.C1.o4.gs  
 Start 15593  
 GI none  
 Exons 15593..16513, 16571..17378, 17473..17641, 17669..17870, 17948..17998

Seq. ID OJ000301\_20.0330.C1  
 Strand -  
 End 18058  
 Method GENSCAN  
 End 17998  
 Score .87

Seq. No. 45459  
 Gene No. 96117  
 Start 15593  
 Name OJ000301\_20.0330.C1.o2.np  
 Start 15596  
 GI 6907089  
 Exons 15596..18058  
 GI Descrip. (AP001129) hypothetical protein [Oryza sativa]

Seq. ID OJ000301\_20.0330.C1  
 Strand -  
 End 18058  
 Method AAT/NAP  
 End 18058  
 Score 3356

Seq. No.	45460	Seq. ID	OJ000301_20.0330.C2
Gene No.	96118	Strand	+
Start	1	End	9071
Name	OJ000301_20.0330.C2.o2.np	Method	AAT/NAP
Start	1	End	2171
GI	5042454	Score	216
Exons	1..230, 459..637, 855..973, 1540..1716, 2111..2171		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	45460	Seq. ID	OJ000301_20.0330.C2
Gene No.	96118	Strand	+
Start	1	End	9071
Name	OJ000301_20.0330.C2.o3.np	Method	AAT/NAP
Start	1	End	9071
GI	5306245	Score	122
Exons	1..183, 5961..6194, 7335..7547, 7962..8016, 8460..8602, 9022..9071		
GI Descrip.	(AC006438) unknown protein [Arabidopsis thaliana]		

Seq. No.	45460	Seq. ID	OJ000301_20.0330.C2
Gene No.	96118	Strand	+
Start	1	End	9071
Name	OJ000301_20.0330.C2.o1.gs	Method	GENSCAN
Start	44	End	4941
GI	none	Score	.46
Exons	44..331, 501..645, 1462..1534, 2221..2289, 3099..3150, 3677..3774, 4721..4855, 4885..4941		

Seq. No.	45460	Seq. ID	OJ000301_20.0330.C2
Gene No.	96119	Strand	+
Start	11562	End	11643
Name	OJ000301_20.0330.C2.o1.gp	Method	AAT/GAP
Start	11562	End	11643
GI	38012_1.R1084	Score	101
Exons	11562..11643		
GI Descrip.	'4097947/gb U72255 OSU72255 2.0e-23 Oryza sativa beta-1,3-glucanase precursor (Gns9) gene, complete cds'		

Seq. No.	45460	Seq. ID	OJ000301_20.0330.C2
Gene No.	96120	Strand	-
Start	1	End	600
Name	OJ000301_20.0330.C2.o1.np	Method	AAT/NAP
Start	1	End	600
GI	7228456	Score	1068
Exons	1..600		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	45461	Seq. ID	OJ000301_20.0330.C3
Gene No.	96121	Strand	+
Start	4191	End	8087
Name	OJ000301_20.0330.C3.o1.gs	Method	GENSCAN
Start	4191	End	8087
GI	none	Score	.82
Exons	4191..4771, 4858..5355, 6319..6478, 6578..6694, 6790..6983, 7796..8087		

Seq. No.	45461	Seq. ID	OJ000301_20.0330.C3
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Gene No.	96121	Strand	+
Start	4191	End	8087
Name	OJ000301_20.0330.C3.o1.np	Method	AAT/NAP
Start	4284	End	8075
GI	6648208	Score	1983
Exons	4284..5355, 6056..6220, 6319..6484, 6578..6694, 6790..6983, 7079..7218, 7254..7312, 7796..8075		
GI Descrip.	(AC013483) putative phosphatidylinositol-4-phosphate 5-kinase [Arabidopsis thaliana]		

Seq. No.	45461	Seq. ID	OJ000301_20.0330.C3
Gene No.	96121	Strand	+
Start	4191	End	8087
Name	OJ000301_20.0330.C3.o2.ts	Method	TBLASTX:Soybean
Start	4356	End	4763
GI	none	Score	115
Exons	4356..4490, 4359..4763, 4361..4540, 4364..4540, 4365..4628, 4368..4697, 4370..4492, 4419..4760, 4607..4732, 4619..4759, 4625..4759		

Seq. No.	45461	Seq. ID	OJ000301_20.0330.C3
Gene No.	96121	Strand	+
Start	4191	End	8087
Name	OJ000301_20.0330.C3.o2.tm	Method	TBLASTX:Maize
Start	4358	End	4876
GI	none	Score	284
Exons	4358..4543, 4359..4760, 4359..4490, 4364..4543, 4365..4697, 4367..4540, 4428..4763, 4433..4546, 4610..4762, 4619..4759, 4619..4696, 4629..4763, 4640..4759, 4640..4759, 4772..4798, 4775..4876		

Seq. No.	45461	Seq. ID	OJ000301_20.0330.C3
Gene No.	96121	Strand	+
Start	4191	End	8087
Name	OJ000301_20.0330.C3.o1.tc	Method	TBLASTX:Cress
Start	4359	End	8072
GI	none	Score	95
Exons	4359..4463, 4361..4411, 4362..4412, 4365..4739, 4368..4760, 4370..4549, 4370..4537, 4370..4540, 4400..4540, 4413..4763, 4539..4760, 4598..4747, 4616..4759, 4629..4685, 4677..4763, 4772..4876, 4775..4876, 4775..4876, 5282..5356, 6053..6217, 6054..6221, 6108..6218, 6317..6508, 6323..6487, 6331..6492, 6538..6678, 6545..6694, 6575..6688, 6787..6942, 6792..6950, 6805..6984, 7052..7153, 7077..7157, 7886..8071, 7887..8072		

Seq. No.	45461	Seq. ID	OJ000301_20.0330.C3
Gene No.	96121	Strand	+
Start	4191	End	8087
Name	OJ000301_20.0330.C3.o1.tw	Method	TBLASTX:Wheat
Start	4364	End	4876
GI	none	Score	197
Exons	4364..4549, 4364..4549, 4365..4691, 4368..4760, 4385..4549, 4412..4546, 4413..4763, 4481..4549, 4607..4732, 4616..4762, 4616..4759, 4619..4759, 4686..4763, 4775..4876		

Seq. No.	45461	Seq. ID	OJ000301_20.0330.C3
Gene No.	96121	Strand	+

Start	4191	End	8087
Name	OJ000301_20.0330.C3.o1.ts	Method	TBLASTX:Soybean
Start	6057	End	6616
GI	none	Score	204
Exons	6057..6221, 6062..6217, 6317..6508, 6331..6489, 6575..6616		

Seq. No.	45461	Seq. ID	OJ000301_20.0330.C3
Gene No.	96121	Strand	+
Start	4191	End	8087
Name	OJ000301_20.0330.C3.o4.tm	Method	TBLASTX:Maize
Start	6090	End	6460
GI	none	Score	130
Exons	6090..6221, 6126..6221, 6139..6222, 6317..6460, 6325..6459		

Seq. No.	45461	Seq. ID	OJ000301_20.0330.C3
Gene No.	96121	Strand	+
Start	4191	End	8087
Name	OJ000301_20.0330.C3.o1.tm	Method	TBLASTX:Maize
Start	6461	End	7168
GI	none	Score	36
Exons	6461..6493, 6558..6665, 6575..6694, 6575..6688, 6577..6690, 6787..6954, 6788..6982, 6789..6983, 6789..6983, 6805..6984, 7076..7168, 7077..7157		

Seq. No.	45461	Seq. ID	OJ000301_20.0330.C3
Gene No.	96121	Strand	+
Start	4191	End	8087
Name	OJ000301_20.0330.C3.o4.ts	Method	TBLASTX:Soybean
Start	6617	End	8065
GI	none	Score	69
Exons	6617..6670, 7805..7861, 7898..8062, 7899..8063, 7916..8065		

Seq. No.	45461	Seq. ID	OJ000301_20.0330.C3
Gene No.	96121	Strand	+
Start	4191	End	8087
Name	OJ000301_20.0330.C3.o3.ts	Method	TBLASTX:Soybean
Start	6778	End	7154
GI	none	Score	223
Exons	6778..6948, 6804..6977, 6805..6975, 7079..7153, 7080..7154		

Seq. No.	45461	Seq. ID	OJ000301_20.0330.C3
Gene No.	96121	Strand	+
Start	4191	End	8087
Name	OJ000301_20.0330.C3.o2.tw	Method	TBLASTX:Wheat
Start	7080	End	8023
GI	none	Score	124
Exons	7080..7169, 7082..7168, 7086..7211, 7793..7861, 7794..7868, 7860..8021, 7866..8015, 7873..8022, 7874..8023		

Seq. No.	45461	Seq. ID	OJ000301_20.0330.C3
Gene No.	96121	Strand	+
Start	4191	End	8087
Name	OJ000301_20.0330.C3.o3.tm	Method	TBLASTX:Maize
Start	7815	End	8071
GI	none	Score	62
Exons	7815..7868, 7869..8069, 7874..8071, 7880..8071		

Seq. No.	45462	Seq. ID	OJ000301_20.0330.C5
Gene No.	96122	Strand	+
Start	436	End	724
Name	OJ000301_20.0330.C5.o1.np	Method	AAT/NAP
Start	436	End	724
GI	6911866	Score	215
Exons	436..724		
GI Descrip.	(AL138655) phosphatidylinositol-4-phosphate 5-kinase-like protein [Arabidopsis thaliana]		

Seq. No.	45462	Seq. ID	OJ000301_20.0330.C5
Gene No.	96122	Strand	+
Start	436	End	724
Name	OJ000301_20.0330.C5.o1.tc	Method	TBLASTX:Cress
Start	458	End	640
GI	none	Score	237
Exons	458..640, 466..636, 485..637		

Seq. No.	45462	Seq. ID	OJ000301_20.0330.C5
Gene No.	96122	Strand	+
Start	436	End	724
Name	OJ000301_20.0330.C5.o1.tm	Method	TBLASTX:Maize
Start	463	End	640
GI	none	Score	235
Exons	463..597, 464..628, 601..639, 602..640		

Seq. No.	45462	Seq. ID	OJ000301_20.0330.C5
Gene No.	96122	Strand	+
Start	436	End	724
Name	OJ000301_20.0330.C5.o1.ts	Method	TBLASTX:Soybean
Start	466	End	636
GI	none	Score	227
Exons	466..504, 503..634, 505..636, 508..636		

Seq. No.	45463	Seq. ID	OJ000301_20.0330.C10
Gene No.	96123	Strand	-
Start	881	End	5581
Name	OJ000301_20.0330.C10.o1.gs	Method	GENSCAN
Start	881	End	5509
GI	none	Score	.86
Exons	881..1097, 3682..3854, 3994..4155, 4239..4347, 5403..5509		

Seq. No.	45463	Seq. ID	OJ000301_20.0330.C10
Gene No.	96123	Strand	-
Start	881	End	5581
Name	OJ000301_20.0330.C10.o1.np	Method	AAT/NAP
Start	2567	End	2704
GI	7340884	Score	102
Exons	2567..2704		
GI Descrip.	(AP001551) Similar to Antirrhinum majus transposon Tam3 gene for transposase. (AB013982) [Oryza sativa]		

Seq. No.	45463	Seq. ID	OJ000301_20.0330.C10
Gene No.	96123	Strand	-
Start	881	End	5581
Name	OJ000301_20.0330.C10.o2.np	Method	AAT/NAP
Start	3041	End	5581



GI 3894197 Score 707  
Exons 3041..3067, 3682..3854, 3994..4155, 4239..4347, 5403..5581  
GI Descrip. (AC005662) hypothetical protein [Arabidopsis thaliana]

Seq. No. 45463 Seq. ID OJ000301\_20.0330.C10  
Gene No. 96123 Strand -  
Start 881 End 5581  
Name OJ000301\_20.0330.C10.o1.tm Method TBLASTX:Maize  
Start 3671 End 5482  
GI none Score 110  
Exons 3671..3757, 3679..3756, 3680..3757, 3739..3855, 3756..3857,  
3757..3855, 3991..4155, 3992..4159, 3993..4157, 3994..4170,  
4237..4350, 4238..4348, 4239..4349, 4239..4352, 4240..4356,  
5379..5480, 5402..5482, 5402..5482

Seq. No. 45463 Seq. ID OJ000301\_20.0330.C10  
Gene No. 96123 Strand -  
Start 881 End 5581  
Name OJ000301\_20.0330.C10.o2.ts Method TBLASTX:Soybean  
Start 3678 End 3857  
GI none Score 86  
Exons 3678..3755, 3679..3756, 3679..3756, 3680..3757, 3681..3773,  
3756..3857, 3757..3855

Seq. No. 45463 Seq. ID OJ000301\_20.0330.C10  
Gene No. 96123 Strand -  
Start 881 End 5581  
Name OJ000301\_20.0330.C10.o1.ts Method TBLASTX:Soybean  
Start 3991 End 5563  
GI none Score 125  
Exons 3991..4155, 3992..4141, 4235..4345, 4237..4350, 4239..4346,  
4239..4352, 4288..4356, 5397..5522, 5402..5521, 5417..5563

Seq. No. 45463 Seq. ID OJ000301\_20.0330.C10  
Gene No. 96123 Strand -  
Start 881 End 5581  
Name OJ000301\_20.0330.C10.o1.tc Method TBLASTX:Cress  
Start 4081 End 5522  
GI none Score 58  
Exons 4081..4155, 4085..4156, 4239..4346, 4239..4352, 4288..4350,  
5397..5522, 5402..5521

Seq. No. 45464 Seq. ID OJ000301\_20.0330.C11  
Gene No. 96124 Strand -  
Start 4 End 237  
Name OJ000301\_20.0330.C11.o1.gs Method GENSCAN  
Start 4 End 237  
GI none Score .78  
Exons 4..237

Seq. No. 45464 Seq. ID OJ000301\_20.0330.C11  
Gene No. 96125 Strand -  
Start 914 End 931  
Name OJ000301\_20.0330.C11.o2.gs Method GENSCAN  
Start 914 End 931  
GI none Score .75  
Exons 914..931

Seq. No.	45465	Seq. ID	OJ000301_20.0330.C12
Gene No.	96126	Strand	+
Start	1490	End	2956
Name	OJ000301_20.0330.C12.o1.gp	Method	AAT/GAP
Start	1490	End	2249
GI	none	Score	487
Exons	1490..1630, 2120..2249		

Seq. No.	45465	Seq. ID	OJ000301_20.0330.C12
Gene No.	96126	Strand	+
Start	1490	End	2956
Name	OJ000301_20.0330.C12.o1.np	Method	AAT/NAP
Start	1538	End	2956
GI	6911879	Score	201
Exons	1538..1630, 2120..2249, 2937..2956		
GI Descrip.	(AL138655) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45466	Seq. ID	OJ000301_20.0330.C13
Gene No.	96127	Strand	+
Start	67	End	639
Name	OJ000301_20.0330.C13.o1.gs	Method	GENSCAN
Start	67	End	639
GI	none	Score	.89
Exons	67..129, 527..639		

Seq. No.	45466	Seq. ID	OJ000301_20.0330.C13
Gene No.	96128	Strand	+
Start	2285	End	8359
Name	OJ000301_20.0330.C13.o2.gs	Method	GENSCAN
Start	2285	End	8359
GI	none	Score	.81
Exons	2285..2446, 2806..2921, 4208..4326, 4940..5030, 5247..5429, 5616..5730, 5847..6050, 6193..6321, 6418..6533, 7412..7502, 8232..8359		

Seq. No.	45466	Seq. ID	OJ000301_20.0330.C13
Gene No.	96129	Strand	-
Start	68	End	148
Name	OJ000301_20.0330.C13.o1.gp	Method	AAT/GAP
Start	68	End	148
GI	none	Score	87
Exons	68..148		

Seq. No.	45466	Seq. ID	OJ000301_20.0330.C13
Gene No.	96130	Strand	-
Start	559	End	837
Name	OJ000301_20.0330.C13.o2.gp	Method	AAT/GAP
Start	559	End	837
GI	uC-osroM202017c07a1	Score	558
Exons	559..837		
GI Descrip.	'3123130/sp O22212 YG62_ARATH 8.0e-48 HYPOTHETICAL 61.8 KD TRP-ASP REPEATS CONTAINING PROTEIN T32G6.2 IN CHROMOSOME II >gi_2618685 (AC002510) putative small nuclear ribonucleoprotein Prp4p [Arabidopsis thaliana] >gi_3241948 (AC004625) putative small nuclear ribonucleoprotein Prp4p [Arabidopsis thaliana]'		

Seq. No.	45467	Seq. ID	OJ000301_20.0330.C14
Gene No.	96131	Strand	+
Start	740	End	1244
Name	OJ000301_20.0330.C14.o1.gs	Method	GENSCAN
Start	740	End	1244
GI	none	Score	.92
Exons	740..845, 1134..1244		

Seq. No.	45468	Seq. ID	OJ000301_20.0330.C15
Gene No.	96132	Strand	+
Start	455	End	14372
Name	OJ000301_20.0330.C15.o1.gs	Method	GENSCAN
Start	455	End	14372
GI	none	Score	.5
Exons	455..526, 651..734, 1289..1407, 2014..2056, 2570..2642, 2710..2791, 4146..4482, 5404..5500, 6855..7026, 7079..7311, 8428..8688, 10453..10496, 10535..10652, 12293..12309, 13075..13123, 13432..13619, 13972..14122, 14131..14372		

Seq. No.	45468	Seq. ID	OJ000301_20.0330.C15
Gene No.	96132	Strand	+
Start	455	End	14372
Name	OJ000301_20.0330.C15.o1.np	Method	AAT/NAP
Start	3585	End	3829
GI	82538	Score	328
Exons	3585..3829		
GI Descrip.	hypothetical 9K protein (rps19-rpl2 intergenic region) - rice chloroplast gi 12028 emb CAA33936  (X15901) ORF82 [Oryza sativa] gi 12074 emb CAA33926  (X15901) ORF82 [Oryza sativa] gi 226650 prf  1603356CA ORF 82 [Oryza sativa]		

Seq. No.	45468	Seq. ID	OJ000301_20.0330.C15
Gene No.	96132	Strand	+
Start	455	End	14372
Name	OJ000301_20.0330.C15.o1.gp	Method	AAT/GAP
Start	3729	End	3815
GI	3073_1.R1084	Score	149
Exons	3729..3815		
GI Descrip.	'133936/sp P12146 RR3_ORYSA 5.0e-95 CHLOROPLAST 30S RIBOSOMAL PROTEIN S3 >gi_70867_pir_R3RZ3 ribosomal protein S3 - rice chloroplast >gi_12025_emb_CAA33934_ (X15901) ribosomal protein S3 [Oryza sativa] >gi_226646_prf__1603356BW ribosomal protein S3 [Oryza sativa]'		

Seq. No.	45468	Seq. ID	OJ000301_20.0330.C15
Gene No.	96132	Strand	+
Start	455	End	14372
Name	OJ000301_20.0330.C15.o2.gp	Method	AAT/GAP
Start	4214	End	4345
GI	306_9.R1084	Score	176
Exons	4214..4345		
GI Descrip.	'287391/dbj D13111 RICMT15 1.0e-178 Oryza sativa mitochondrial rpoB pseudogene'		

Seq. No.	45468	Seq. ID	OJ000301_20.0330.C15
Gene No.	96132	Strand	+
Start	455	End	14372

Name	OJ000301_20.0330.C15.o3.gp	Method	AAT/GAP
Start	6351	End	6557
GI	none	Score	284
Exons	6351..6557		

Seq. No.	45468	Seq. ID	OJ000301_20.0330.C15
Gene No.	96132	Strand	+
Start	455	End	14372
Name	OJ000301_20.0330.C15.o3.np	Method	AAT/NAP
Start	6985	End	9000
GI	7444451	Score	330
Exons	6985..7319, 8935..9000		
GI Descrip.	probable gag/pol polyprotein - long-staminate rice retrotransposon retrofit gi 2586082 gb AAB82754.1  (U72725) retrofit [Oryza longistaminata]		

Seq. No.	45468	Seq. ID	OJ000301_20.0330.C15
Gene No.	96132	Strand	+
Start	455	End	14372
Name	OJ000301_20.0330.C15.o5.np	Method	AAT/NAP
Start	13009	End	14362
GI	4584255	Score	633
Exons	13009..13102, 13513..13619, 13972..14362		
GI Descrip.	(Y18471) SINALp [Vitis vinifera]		

Seq. No.	45468	Seq. ID	OJ000301_20.0330.C15
Gene No.	96133	Strand	-
Start	3481	End	4876
Name	OJ000301_20.0330.C15.o2.np	Method	AAT/NAP
Start	3481	End	4876
GI	2627238	Score	66
Exons	3481..3552, 4806..4876		
GI Descrip.	(D50565) NADH dehydrogenase subunit 5 [Oryza sativa] gi 2627240 dbj BAA23492  (D50566) NADH dehydrogenase subunit 5 [Oryza sativa]		

Seq. No.	45468	Seq. ID	OJ000301_20.0330.C15
Gene No.	96134	Strand	-
Start	7721	End	7791
Name	OJ000301_20.0330.C15.o4.gp	Method	AAT/GAP
Start	7721	End	7791
GI	61430_1.R1084	Score	96
Exons	7721..7791		
GI Descrip.	'14394/emb Z14060 MISCREPU4 0.0e+00 T.aestivum mitochondrion fMet, 18S, 5S repeat unit DNA'		

Seq. No.	45468	Seq. ID	OJ000301_20.0330.C15
Gene No.	96135	Strand	-
Start	7842	End	8452
Name	OJ000301_20.0330.C15.o2.tc	Method	TBLASTX:Cress
Start	982	End	1201
GI	none	Score	111
Exons	982..1047, 983..1054, 984..1055, 986..1057, 1041..1193, 1055..1174, 1057..1191, 1058..1201		

Seq. No.	45468	Seq. ID	OJ000301_20.0330.C15
Gene No.	96135	Strand	-

Start	7842	End	8452
Name	OJ000301_20.0330.C15.o1.tw		Method TBLASTX:Wheat
Start	2119	End	2410
GI	none	Score	213
Exons	2119..2307, 2127..2270, 2127..2315, 2128..2304, 2281..2367, 2291..2377, 2302..2376, 2327..2401, 2348..2383, 2376..2405, 2377..2409, 2378..2410		

Seq. No.	45468	Seq. ID	OJ000301_20.0330.C15
Gene No.	96135	Strand	-
Start	7842	End	8452
Name	OJ000301_20.0330.C15.o2.tm	Method	TBLASTX:Maize
Start	2119	End	2383
GI	none	Score	57
Exons	2119..2160, 2120..2161, 2142..2294, 2151..2270, 2158..2292, 2292..2315, 2296..2358, 2321..2383, 2327..2350, 2348..2377		

Seq. No.	45468	Seq. ID	OJ000301_20.0330.C15
Gene No.	96135	Strand	-
Start	7842	End	8452
Name	OJ000301_20.0330.C15.o3.tm	Method	TBLASTX:Maize
Start	4204	End	4327
GI	none	Score	209
Exons	4204..4326, 4204..4326, 4223..4327		

Seq. No.	45468	Seq. ID	OJ000301_20.0330.C15
Gene No.	96135	Strand	-
Start	7842	End	8452
Name	OJ000301_20.0330.C15.o2.tw	Method	TBLASTX:Wheat
Start	6990	End	7280
GI	none	Score	71
Exons	6990..7082, 7098..7280, 7124..7276		

Seq. No.	45468	Seq. ID	OJ000301_20.0330.C15
Gene No.	96135	Strand	-
Start	7842	End	8452
Name	OJ000301_20.0330.C15.o4.tm	Method	TBLASTX:Maize
Start	7041	End	7300
GI	none	Score	201
Exons	7041..7298, 7112..7300		

Seq. No.	45468	Seq. ID	OJ000301_20.0330.C15
Gene No.	96135	Strand	-
Start	7842	End	8452
Name	OJ000301_20.0330.C15.o4.np	Method	AAT/NAP
Start	7842	End	8452
GI	4973022	Score	755
Exons	7842..7905, 8019..8452		
GI Descrip.	(AF141933) unknown [Oryza sativa]		

Seq. No.	45468	Seq. ID	OJ000301_20.0330.C15
Gene No.	96136	Strand	-
Start	13566	End	14405
Name	OJ000301_20.0330.C15.o1.tm	Method	TBLASTX:Maize
Start	13566	End	14405
GI	none	Score	93
Exons	13566..13652, 13969..14007, 14004..14405, 14009..14359		

Seq. No.	45468	Seq. ID	OJ000301_20.0330.C15
Gene No.	96136	Strand	
Start	13566	End	14405
Name	OJ000301_20.0330.C15.o1.ts	Method	TBLASTX:Soybean
Start	13966	End	14370
GI	none	Score	63
Exons	13966..14007, 14004..14360, 14004..14129, 14006..14359, 14191..14370, 14215..14370		

Seq. No.	45468	Seq. ID	OJ000301_20.0330.C15
Gene No.	96136	Strand	
Start	13566	End	14405
Name	OJ000301_20.0330.C15.o1.tc	Method	TBLASTX:Cress
Start	14018	End	14303
GI	none	Score	400
Exons	14018..14302, 14019..14300, 14019..14303		

Seq. No.	45469	Seq. ID	OJ000301_20.0330.C16
Gene No.	96137	Strand	+
Start	1714	End	2116
Name	OJ000301_20.0330.C16.o1.gp	Method	AAT/GAP
Start	1714	End	2116
GI	uC-osrocyp005f04a1	Score	794
Exons	1714..2116		
GI Descrip.	'3894191 1.0e-08 (AC005662) unknown protein [Arabidopsis thaliana]'		

Seq. No.	45469	Seq. ID	OJ000301_20.0330.C16
Gene No.	96138	Strand	-
Start	1396	End	2431
Name	OJ000301_20.0330.C16.o1.gs	Method	GENSCAN
Start	1396	End	2324
GI	none	Score	.88
Exons	1396..1479, 2019..2324		

Seq. No.	45469	Seq. ID	OJ000301_20.0330.C16
Gene No.	96138	Strand	-
Start	1396	End	2431
Name	OJ000301_20.0330.C16.o1.tc	Method	TBLASTX:Cress
Start	1983	End	2264
GI	none	Score	115
Exons	1983..2264, 1993..2151		

Seq. No.	45469	Seq. ID	OJ000301_20.0330.C16
Gene No.	96138	Strand	-
Start	1396	End	2431
Name	OJ000301_20.0330.C16.o1.ts	Method	TBLASTX:Soybean
Start	1993	End	2429
GI	none	Score	110
Exons	1993..2142, 1998..2264, 2286..2429		

Seq. No.	45469	Seq. ID	OJ000301_20.0330.C16
Gene No.	96138	Strand	-
Start	1396	End	2431
Name	OJ000301_20.0330.C16.o1.np	Method	AAT/NAP
Start	1995	End	2431

GI	6911877	Score	385
Exons	1995..2431		
GI Descrip.	(AL138655) putative protein [Arabidopsis thaliana]		
Seq. No.	45469	Seq. ID	OJ000301_20.0330.C16
Gene No.	96138	Strand	-
Start	1396	End	2431
Name	OJ000301_20.0330.C16.o2.gp	Method	AAT/GAP
Start	2182	End	2431
GI	none	Score	464
Exons	2182..2431		
Seq. No.	45470	Seq. ID	OJ000301_20.0330.C17
Gene No.	96139	Strand	+
Start	576	End	2098
Name	OJ000301_20.0330.C17.o1.gs	Method	GENSCAN
Start	576	End	2077
GI	none	Score	.67
Exons	576..818, 1797..2077		
Seq. No.	45470	Seq. ID	OJ000301_20.0330.C17
Gene No.	96139	Strand	+
Start	576	End	2098
Name	OJ000301_20.0330.C17.o1.gp	Method	AAT/GAP
Start	693	End	2078
GI	64853_1.R1084	Score	710
Exons	693..818, 1769..2078		
GI Descrip.	'4190974/dbj BAA74448  0.0e+00 (AB018442) phytochrome C [Oryza sativa]'		
Seq. No.	45470	Seq. ID	OJ000301_20.0330.C17
Gene No.	96139	Strand	+
Start	576	End	2098
Name	OJ000301_20.0330.C17.o1.np	Method	AAT/NAP
Start	1739	End	2078
GI	2388578	Score	280
Exons	1739..2078		
GI Descrip.	(AC000098) Similar to Mycobacterium RlpF (gb Z84395). ESTs gb T75785,gb R30580,gb T04698 come from this gene. [Arabidopsis thaliana]		
Seq. No.	45470	Seq. ID	OJ000301_20.0330.C17
Gene No.	96139	Strand	+
Start	576	End	2098
Name	OJ000301_20.0330.C17.o1.ts	Method	TBLASTX:Soybean
Start	1763	End	2078
GI	none	Score	348
Exons	1763..1966, 1764..2078, 2025..2078		
Seq. No.	45470	Seq. ID	OJ000301_20.0330.C17
Gene No.	96139	Strand	+
Start	576	End	2098
Name	OJ000301_20.0330.C17.o1.tm	Method	TBLASTX:Maize
Start	1769	End	2098
GI	none	Score	311
Exons	1769..2077, 1769..1966, 1770..2078, 2051..2098		

Seq. No.	45470	Seq. ID	OJ000301_20.0330.C17
Gene No.	96139	Strand	+
Start	576	End	2098
Name	OJ000301_20.0330.C17.o1.tc	Method	TBLASTX:Cress.
Start	1776	End	2086
GI	none	Score	321
Exons	1776..2078, 1820..1966, 2051..2086		

Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96140	Strand	+
Start	2230	End	7015
Name	OJ000301_20.0330.C18.o1.gs	Method	GENSCAN
Start	2230	End	7015
GI	none	Score	.71
Exons	2230..2346, 2745..2830, 2984..3108, 3135..3249, 3411..3595, 3913..3944, 4042..4129, 4296..4420, 4488..4679, 4750..4808, 4882..5622, 5759..5904, 6015..6386, 6395..6528, 6923..7015		

Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96141	Strand	+
Start	13776	End	20895
Name	OJ000301_20.0330.C18.o5.gs	Method	GENSCAN
Start	13776	End	20892
GI	none	Score	.65
Exons	13776..13926, 14297..14347, 14483..15121, 15822..15934, 16178..16262, 16691..16796, 17131..17217, 17292..17389, 17469..17578, 18896..19066, 19178..19302, 19401..19630, 20097..20165, 20717..20892		

Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96141	Strand	+
Start	13776	End	20895
Name	OJ000301_20.0330.C18.o3.np	Method	AAT/NAP
Start	13901	End	17804
GI	7486379	Score	794
Exons	13901..14112, 15078..15121, 15822..15934, 16016..16069, 16178..16262, 16691..16796, 17131..17232, 17292..17389, 17469..17578, 17742..17804		
GI Descrip.	hypothetical protein F3L17.100 - Arabidopsis thaliana gi 5262764 emb CAB45912.1  (AL080283) putative protein [Arabidopsis thaliana] gi 7270056 emb CAB79871.1  (AL161579) putative protein [Arabidopsis thaliana]		

Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96141	Strand	+
Start	13776	End	20895
Name	OJ000301_20.0330.C18.o1.gp	Method	AAT/GAP
Start	15366	End	15516
GI	uC-osflcyp177g01a1	Score	239
Exons	15366..15516		
GI Descrip.	'4884864/gb AAD31846.1 AF133530_1 4.0e-12 (AF133530) water channel protein MipH [Mesembryanthemum crystallinum]'		

Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96141	Strand	+
Start	13776	End	20895
Name	OJ000301_20.0330.C18.o2.gp	Method	AAT/GAP



Start	17511	End	18009
GI	2801103	Score	577
Exons	17511..17578, 17742..18009		
GI Descrip.	5262764/emb CAB45912.1  1.0e-13 (AL080283) putative protein [Arabidopsis thaliana]		

Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96141	Strand	+
Start	13776	End	20895
Name	OJ000301_20.0330.C18.o4.np	Method	AAT/NAP
Start	18917	End	20895
GI	7450871	Score	957
Exons	18917..19066, 19178..19302, 19401..19630, 20126..20168, 20390..20481, 20705..20895		
GI Descrip.	probable methyltransferase F28M20.20 - Arabidopsis thaliana gi 3281849 emb CAA19744.1  (AL031004) methyltransferase - like protein [Arabidopsis thaliana] gi 7270082 emb CAB79897.1  (AL161579) methyltransferase-like protein [Arabidopsis thaliana]		

Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96142	Strand	+
Start	20809	End	21284
Name	OJ000301_20.0330.C18.o3.gp	Method	AAT/GAP
Start	20809	End	21284
GI	none	Score	621
Exons	20809..20911, 21052..21284		

Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96143	Strand	-
Start	1	End	10496
Name	OJ000301_20.0330.C18.o1.np	Method	AAT/NAP
Start	1	End	10301
GI	7228457	Score	1729
Exons	1..255, 4512..4551, 4643..4689, 5032..5251, 6267..6339, 7558..7691, 7815..8705, 8759..10301		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96143	Strand	-
Start	1	End	10496
Name	OJ000301_20.0330.C18.o2.gs	Method	GENSCAN
Start	7147	End	8573
GI	none	Score	.97
Exons	7147..7585, 7783..8573		

Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96143	Strand	-
Start	1	End	10496
Name	OJ000301_20.0330.C18.o3.gs	Method	GENSCAN
Start	8951	End	10496
GI	none	Score	.54
Exons	8951..9283, 9347..9841, 9866..10053, 10247..10496		

Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96144	Strand	-

Start	10645	End	12628
Name	OJ000301_20.0330.C18.o4.gs	Method	GENSCAN
Start	10645	End	12628
GI	none	Score	.85
Exons	10645..11589, 11652..11830, 12318..12355, 12546..12628		

Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96144	Strand	-
Start	10645	End	12628
Name	OJ000301_20.0330.C18.o2.np	Method	AAT/NAP
Start	11776	End	12274
GI	7523517	Score	346
Exons	11776..11830, 11975..12274		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96145	Strand	-
Start	21588	End	24048
Name	OJ000301_20.0330.C18.o5.tw	Method	TBLASTX:Wheat
Start	7159	End	7539
GI	none	Score	61
Exons	7159..7290, 7160..7285, 7315..7539		

Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96145	Strand	-
Start	21588	End	24048
Name	OJ000301_20.0330.C18.o2.ts	Method	TBLASTX:Soybean
Start	7638	End	8003
GI	none	Score	91
Exons	7638..8003, 7819..7971		

Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96145	Strand	-
Start	21588	End	24048
Name	OJ000301_20.0330.C18.o2.tw	Method	TBLASTX:Wheat
Start	7638	End	8057
GI	none	Score	292
Exons	7638..8057, 7639..8010, 7653..8054		

Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96145	Strand	-
Start	21588	End	24048
Name	OJ000301_20.0330.C18.o3.tm	Method	TBLASTX:Maize
Start	7731	End	8114
GI	none	Score	143
Exons	7731..8114, 7732..8010		

Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96145	Strand	-
Start	21588	End	24048
Name	OJ000301_20.0330.C18.o2.tm	Method	TBLASTX:Maize
Start	8142	End	8498
GI	none	Score	217
Exons	8142..8498, 8143..8436		

Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96145	Strand	-

Start	21588	End	24048
Name	OJ000301_20.0330.C18.o1.tw	Method	TBLASTX:Wheat
Start	8172	End	8628
GI	none	Score	355
Exons	8172..8627, 8173..8628		
Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96145	Strand	-
Start	21588	End	24048
Name	OJ000301_20.0330.C18.o4.ts	Method	TBLASTX:Soybean
Start	8223	End	8588
GI	none	Score	106
Exons	8223..8357, 8364..8588		
Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96145	Strand	-
Start	21588	End	24048
Name	OJ000301_20.0330.C18.o3.tw	Method	TBLASTX:Wheat
Start	8819	End	9274
GI	none	Score	84
Exons	8819..9055, 8876..9043, 8967..9053, 9092..9274, 9093..9266		
Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96145	Strand	-
Start	21588	End	24048
Name	OJ000301_20.0330.C18.o4.tw	Method	TBLASTX:Wheat
Start	9905	End	10302
GI	none	Score	62
Exons	9905..10081, 9954..10103, 10078..10179, 10135..10254, 10138..10251, 10252..10302		
Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96145	Strand	-
Start	21588	End	24048
Name	OJ000301_20.0330.C18.o2.tc	Method	TBLASTX:Cress
Start	15820	End	16794
GI	none	Score	127
Exons	15820..15921, 15821..15940, 16007..16069, 16175..16261, 16177..16290, 16687..16794, 16689..16790		
Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96145	Strand	-
Start	21588	End	24048
Name	OJ000301_20.0330.C18.o4.tm	Method	TBLASTX:Maize
Start	17289	End	17813
GI	none	Score	117
Exons	17289..17390, 17290..17394, 17308..17394, 17467..17580, 17468..17593, 17468..17578, 17515..17592, 17733..17813, 17733..17813		
Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96145	Strand	-
Start	21588	End	24048
Name	OJ000301_20.0330.C18.o3.ts	Method	TBLASTX:Soybean
Start	17302	End	17792
GI	none	Score	129
Exons	17302..17394, 17307..17390, 17468..17563, 17733..17792		

Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96145	Strand	-
Start	21588	End	24048
Name	OJ000301_20.0330.C18.o1.tc	Method	TBLASTX:Cress
Start	18917	End	19578
GI	none	Score	190
Exons	18917..19066, 18979..19062, 19177..19302, 19178..19303, 19401..19577, 19402..19578		

Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96145	Strand	-
Start	21588	End	24048
Name	OJ000301_20.0330.C18.o1.tm	Method	TBLASTX:Maize
Start	18917	End	19551
GI	none	Score	233
Exons	18917..19066, 18917..19012, 18979..19062, 19177..19302, 19178..19303, 19368..19550, 19378..19548, 19401..19550, 19402..19551		

Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96145	Strand	-
Start	21588	End	24048
Name	OJ000301_20.0330.C18.o1.ts	Method	TBLASTX:Soybean
Start	19256	End	20892
GI	none	Score	61
Exons	19256..19303, 19276..19302, 19401..19628, 19402..19599, 19407..19634, 19412..19630, 20125..20166, 20388..20459, 20692..20892, 20697..20870		

Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96145	Strand	-
Start	21588	End	24048
Name	OJ000301_20.0330.C18.o3.tc	Method	TBLASTX:Cress
Start	20125	End	20889
GI	none	Score	68
Exons	20125..20166, 20390..20479, 20391..20480, 20686..20889, 20709..20885		

Seq. No.	45471	Seq. ID	OJ000301_20.0330.C18
Gene No.	96145	Strand	-
Start	21588	End	24048
Name	OJ000301_20.0330.C18.o6.gs	Method	GENSCAN
Start	21588	End	24048
GI	none	Score	.73
Exons	21588..22289, 22415..22546, 23065..23328, 23524..23847, 23965..24048		

Seq. No.	45472	Seq. ID	OJ000301_20.0330.C19
Gene No.	96146	Strand	+
Start	458	End	3549
Name	OJ000301_20.0330.C19.o1.gs	Method	GENSCAN
Start	458	End	3549
GI	none	Score	.52
Exons	458..549, 1140..1246, 3410..3549		

Seq. No.	45472	Seq. ID	OJ000301_20.0330.C19
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Gene No.	96147	Strand	+
Start	5086	End	11133
Name	OJ000301_20.0330.C19.o2.gs	Method	GENSCAN
Start	5086	End	10869
GI	none	Score	.89
Exons	5086..5172, 6303..6500, 6625..6738, 6828..7078, 7166..7301, 7695..7874, 7959..8051, 8323..8534, 8659..8722, 8794..8997, 9271..9363, 9453..9844, 9962..10151, 10296..10439, 10573..10869		

Seq. No.	45472	Seq. ID	OJ000301_20.0330.C19
Gene No.	96147	Strand	+
Start	5086	End	11133
Name	OJ000301_20.0330.C19.o2.np	Method	AAT/NAP
Start	5095	End	10869
GI	7385055	Score	3393
Exons	5095..5172, 6303..6500, 6625..6738, 6828..7078, 7166..7301, 7695..7874, 7959..8051, 8323..8534, 8659..8722, 8794..8973, 9271..9363, 9453..9844, 9962..10151, 10236..10439, 10573..10869		
GI Descrip.	(AF216387) beta-adaptin-like protein C [Arabidopsis thaliana]		

Seq. No.	45472	Seq. ID	OJ000301_20.0330.C19
Gene No.	96147	Strand	+
Start	5086	End	11133
Name	OJ000301_20.0330.C19.o1.gp	Method	AAT/GAP
Start	8799	End	11133
GI	16044_1.R1084	Score	3059
Exons	8799..8973, 9271..9363, 9453..9844, 9962..10151, 10236..10439, 10573..11133		
GI Descrip.	'5596484/emb CAB51422.1  1.0e-151 (AL096882) beta-adaptin-like protein [Arabidopsis thaliana]'		

Seq. No.	45472	Seq. ID	OJ000301_20.0330.C19
Gene No.	96148	Strand	-
Start	11767	End	12225
Name	OJ000301_20.0330.C19.o1.tc	Method	TBLASTX:Cress
Start	5086	End	6716
GI	none	Score	152
Exons	5086..5172, 6300..6500, 6302..6502, 6302..6502, 6616..6714, 6619..6714, 6624..6716, 6624..6716		

Seq. No.	45472	Seq. ID	OJ000301_20.0330.C19
Gene No.	96148	Strand	-
Start	11767	End	12225
Name	OJ000301_20.0330.C19.o5.ts	Method	TBLASTX:Soybean
Start	5086	End	6449
GI	none	Score	137
Exons	5086..5172, 6300..6449, 6301..6441, 6302..6448		

Seq. No.	45472	Seq. ID	OJ000301_20.0330.C19
Gene No.	96148	Strand	-
Start	11767	End	12225
Name	OJ000301_20.0330.C19.o1.ts	Method	TBLASTX:Soybean
Start	6450	End	7202
GI	none	Score	43
Exons	6450..6476, 6477..6500, 6614..6739, 6619..6738, 6624..6740, 6624..6755, 6810..7094, 6823..7092, 6825..7109, 6988..7101, 7166..7198, 7167..7202		

Seq. No.	45472	Seq. ID	OJ000301_20.0330.C19
Gene No.	96148	Strand	-
Start	11767	End	12225
Name	OJ000301_20.0330.C19.o2.tm	Method	TBLASTX:Maize
Start	6903	End	7055
GI	none	Score	195
Exons	6903..7055, 6903..7055		

Seq. No.	45472	Seq. ID	OJ000301_20.0330.C19
Gene No.	96148	Strand	-
Start	11767	End	12225
Name	OJ000301_20.0330.C19.o3.tc	Method	TBLASTX:Cress
Start	6975	End	7872
GI	none	Score	119
Exons	6975..7094, 6990..7094, 7007..7108, 7166..7267, 7167..7304, 7167..7304, 7675..7869, 7682..7870, 7683..7871, 7693..7872		

Seq. No.	45472	Seq. ID	OJ000301_20.0330.C19
Gene No.	96148	Strand	-
Start	11767	End	12225
Name	OJ000301_20.0330.C19.o1.tm	Method	TBLASTX:Maize
Start	7056	End	11058
GI	none	Score	49
Exons	7056..7094, 7060..7092, 7163..7267, 7166..7267, 7167..7304, 7167..7304, 7168..7305, 7679..7876, 7682..7876, 7683..7883, 7956..8054, 7956..8054, 8320..8535, 8322..8540, 8330..8449, 8344..8535, 8656..8727, 8660..8722, 8791..8982, 8791..8976, 9265..9363, 9269..9364, 9271..9369, 9403..9726, 9436..9678, 9447..9770, 9450..9740, 9744..9839, 9773..9841, 9773..9844, 9774..9845, 9962..10153, 9982..10152, 9993..10154, 10233..10439, 10235..10441, 10235..10438, 10281..10439, 10548..10868, 10564..10869, 10567..10869, 10571..10882, 10572..10877, 10927..11058, 10929..11045, 10984..11058		

Seq. No.	45472	Seq. ID	OJ000301_20.0330.C19
Gene No.	96148	Strand	-
Start	11767	End	12225
Name	OJ000301_20.0330.C19.o3.ts	Method	TBLASTX:Soybean
Start	7679	End	8850
GI	none	Score	297
Exons	7679..7876, 7683..7883, 7686..7877, 7956..8054, 7956..8051, 7958..8053, 8319..8540, 8344..8535, 8656..8718, 8660..8722, 8787..8846, 8791..8850, 8791..8850		

Seq. No.	45472	Seq. ID	OJ000301_20.0330.C19
Gene No.	96148	Strand	-
Start	11767	End	12225
Name	OJ000301_20.0330.C19.o4.tc	Method	TBLASTX:Cress
Start	7956	End	8481
GI	none	Score	153
Exons	7956..8054, 7956..8051, 7957..8052, 8319..8480, 8322..8480, 8344..8481		

Seq. No.	45472	Seq. ID	OJ000301_20.0330.C19
Gene No.	96148	Strand	-
Start	11767	End	12225

Name	OJ000301_20.0330.C19.o4.ts	Method	TBLASTX:Soybean
Start	8851	End	9854
GI	none	Score	198
Exons	8851..8982, 8853..8975, 9261..9317, 9274..9318, 9318..9362, 9319..9369, 9442..9591, 9446..9592, 9450..9674, 9452..9670, 9632..9688, 9690..9845, 9774..9854		
Seq. No.	45472	Seq. ID	OJ000301_20.0330.C19
Gene No.	96148	Strand	-
Start	11767	End	12225
Name	OJ000301_20.0330.C19.o2.tc	Method	TBLASTX:Cress
Start	9606	End	10685
GI	none	Score	60
Exons	9606..9686, 9774..9815, 9807..9845, 9809..9844, 9965..10156, 9996..10163, 10233..10439, 10235..10438, 10281..10439, 10545..10685, 10567..10683		
Seq. No.	45472	Seq. ID	OJ000301_20.0330.C19
Gene No.	96148	Strand	-
Start	11767	End	12225
Name	OJ000301_20.0330.C19.o6.ts	Method	TBLASTX:Soybean
Start	9962	End	10163
GI	none	Score	117
Exons	9962..10156, 9965..10159, 9990..10163, 9993..10157		
Seq. No.	45472	Seq. ID	OJ000301_20.0330.C19
Gene No.	96148	Strand	-
Start	11767	End	12225
Name	OJ000301_20.0330.C19.o1.tw	Method	TBLASTX:Wheat
Start	10034	End	10767
GI	none	Score	191
Exons	10034..10156, 10035..10163, 10233..10439, 10235..10441, 10235..10438, 10281..10439, 10548..10766, 10567..10767		
Seq. No.	45472	Seq. ID	OJ000301_20.0330.C19
Gene No.	96148	Strand	-
Start	11767	End	12225
Name	OJ000301_20.0330.C19.o2.ts	Method	TBLASTX:Soybean
Start	10233	End	10878
GI	none	Score	275
Exons	10233..10439, 10244..10438, 10532..10738, 10534..10743, 10548..10865, 10566..10862, 10567..10863, 10786..10878		
Seq. No.	45472	Seq. ID	OJ000301_20.0330.C19
Gene No.	96148	Strand	-
Start	11767	End	12225
Name	OJ000301_20.0330.C19.o5.tc	Method	TBLASTX:Cress
Start	10686	End	10869
GI	none	Score	222
Exons	10686..10865, 10687..10866, 10711..10869		
Seq. No.	45472	Seq. ID	OJ000301_20.0330.C19
Gene No.	96148	Strand	-
Start	11767	End	12225
Name	OJ000301_20.0330.C19.o2.tw	Method	TBLASTX:Wheat
Start	10767	End	11108
GI	none	Score	146

Exons 10767..10868, 10768..10869, 10954..10989, 10984..11031,  
10984..11100, 11088..11108

Seq. No.	45472	Seq. ID	OJ000301_20.0330.C19
Gene No.	96148	Strand	-
Start	11767	End	12225
Name	OJ000301_20.0330.C19.o3.gs	Method	GENSCAN
Start	11767	End	12225
GI	none	Score	1
Exons	11767..12225		

Seq. No.	45473	Seq. ID	OJ000301_20.0330.C20
Gene No.	96149	Strand	-
Start	29	End	2408
Name	OJ000301_20.0330.C20.o1.gs	Method	GENSCAN
Start	29	End	2207
GI	none	Score	.7
Exons	29..429, 2126..2207		

Seq. No.	45473	Seq. ID	OJ000301_20.0330.C20
Gene No.	96149	Strand	-
Start	29	End	2408
Name	OJ000301_20.0330.C20.o1.gp	Method	AAT/GAP
Start	1134	End	2408
GI	57088_1.R1084	Score	928
Exons	1134..1437, 2126..2207, 2285..2408		
GI Descrip.	'3123130/sp O22212 YG62_ARATH 8.0e-48 HYPOTHETICAL 61.8 KD TRP-ASP REPEATS CONTAINING PROTEIN T32G6.2 IN CHROMOSOME II >gi_2618685 (AC002510) putative small nuclear ribonucleoprotein Prp4p [Arabidopsis thaliana] >gi_3241948 (AC004625) putative small nuclear ribonucleoprotein Prp4p [Arabidopsis thaliana]'		

Seq. No.	45473	Seq. ID	OJ000301_20.0330.C20
Gene No.	96149	Strand	-
Start	29	End	2408
Name	OJ000301_20.0330.C20.o1.tm	Method	TBLASTX:Maize
Start	1325	End	2408
GI	none	Score	113
Exons	1325..1438, 1339..1443, 2114..2206, 2123..2206, 2280..2408, 2282..2407		

Seq. No.	45473	Seq. ID	OJ000301_20.0330.C20
Gene No.	96149	Strand	-
Start	29	End	2408
Name	OJ000301_20.0330.C20.o1.np	Method	AAT/NAP
Start	1331	End	2408
GI	3123130	Score	216
Exons	1331..1437, 2126..2207, 2285..2408		
GI Descrip.	HYPOTHETICAL 61.8 KD TRP-ASP REPEATS CONTAINING PROTEIN T32G6.2 IN CHROMOSOME II gi 2618685 gb AAB84332.1  (AC002510) putative U4/U6 small nuclear ribonucleoprotein [Arabidopsis thaliana]		

Seq. No.	45474	Seq. ID	OJ000301_20.0330.C21
Gene No.	96150	Strand	-
Start	1	End	706
Name	OJ000301_20.0330.C21.o1.np	Method	AAT/NAP
Start	1	End	706



GI	3123130	Score	438
Exons	1..706		
GI Descrip.	HYPOTHETICAL 61.8 KD TRP-ASP REPEATS CONTAINING PROTEIN T32G6.2 IN CHROMOSOME II gi 2618685 gb AAB84332.1  (AC002510) putative U4/U6 small nuclear ribonucleoprotein [Arabidopsis thaliana]		

Seq. No.	45474	Seq. ID	OJ000301_20.0330.C21
Gene No.	96150	Strand	-
Start	1	End	706
Name	OJ000301_20.0330.C21.o1.gs	Method	GENSCAN
Start	97	End	602
GI	none	Score	.91
Exons	97..602		

Seq. No.	45474	Seq. ID	OJ000301_20.0330.C21
Gene No.	96150	Strand	-
Start	1	End	706
Name	OJ000301_20.0330.C21.o1.gp	Method	AAT/GAP
Start	253	End	703
GI	43056 1.R1084	Score	890
Exons	253..703		
GI Descrip.	'3123130/sp O22212 YG62 ARATH 9.0e-15 HYPOTHETICAL 61.8 KD TRP-ASP REPEATS CONTAINING PROTEIN T32G6.2 IN CHROMOSOME II >gi_2618685 (AC002510) putative small nuclear ribonucleoprotein Prp4p [Arabidopsis thaliana] >gi_3241948 (AC004625) putative small nuclear ribonucleoprotein Prp4p [Arabidopsis thaliana]'		

Seq. No.	45475	Seq. ID	OJ000301_20.0330.C22
Gene No.	96151	Strand	+
Start	1824	End	3241
Name	OJ000301_20.0330.C22.o1.gs	Method	GENSCAN
Start	1824	End	3241
GI	none	Score	.43
Exons	1824..2563, 2626..3241		

Seq. No.	45475	Seq. ID	OJ000301_20.0330.C22
Gene No.	96151	Strand	+
Start	1824	End	3241
Name	OJ000301_20.0330.C22.o1.gp	Method	AAT/GAP
Start	1867	End	2314
GI	none	Score	808
Exons	1867..2314		

Seq. No.	45475	Seq. ID	OJ000301_20.0330.C22
Gene No.	96152	Strand	+
Start	3175	End	3256
Name	OJ000301_20.0330.C22.o2.gp	Method	AAT/GAP
Start	3175	End	3256
GI	none	Score	129
Exons	3175..3256		

Seq. No.	45476	Seq. ID	OJ000301_20.0330.C24
Gene No.	96153	Strand	+
Start	1	End	234
Name	OJ000301_20.0330.C24.o1.gp	Method	AAT/GAP
Start	1	End	234
GI	3763498	Score	445

Exons 1..234  
 GI Descrip. 3123130/sp|O22212|YG62\_ARATH 8.0e-48 HYPOTHETICAL 61.8 KD  
 TRP-ASP REPEATS CONTAINING PROTEIN T32G6.2 IN CHROMOSOME II  
 >gi\_2618685 (AC002510) putative small nuclear ribonucleoprotein  
 Prp4p [Arabidopsis thaliana] >gi\_3241948 (AC004625) putative  
 small nuclear ribonucleoprotein Prp4p [Arabidopsis thaliana]

Seq. No.	45476	Seq. ID	OJ000301_20.0330.C24
Gene No.	96154	Strand	-
Start	1	End	266
Name	OJ000301_20.0330.C24.o1.np	Method	AAT/NAP
Start	1	End	231
GI	3123130	Score	280
Exons	1..231		
GI Descrip.	HYPOTHETICAL 61.8 KD TRP-ASP REPEATS CONTAINING PROTEIN T32G6.2 IN CHROMOSOME II gi 2618685 gb AAB84332.1  (AC002510) putative U4/U6 small nuclear ribonucleoprotein [Arabidopsis thaliana]		

Seq. No.	45476	Seq. ID	OJ000301_20.0330.C24
Gene No.	96154	Strand	-
Start	1	End	266
Name	OJ000301_20.0330.C24.o1.tm	Method	TBLASTX:Maize
Start	1	End	266
GI	none	Score	261
Exons	1..234, 1..231, 3..266, 6..68, 78..212, 78..197		

Seq. No.	45476	Seq. ID	OJ000301_20.0330.C24
Gene No.	96154	Strand	-
Start	1	End	266
Name	OJ000301_20.0330.C24.o1.gs	Method	GENSCAN
Start	44	End	231
GI	none	Score	.76
Exons	44..231		

Seq. No.	45477	Seq. ID	OJ000301_20.0330.C25
Gene No.	96155	Strand	-
Start	445	End	581
Name	OJ000301_20.0330.C25.o1.gs	Method	GENSCAN
Start	445	End	581
GI	none	Score	.63
Exons	445..500, 533..581		

Seq. No.	45478	Seq. ID	OJ000301_20.0330.C26
Gene No.	96156	Strand	+
Start	1	End	1205
Name	OJ000301_20.0330.C26.o1.np	Method	AAT/NAP
Start	1	End	1193
GI	6911866	Score	703
Exons	1..259, 342..473, 542..592, 893..1193		
GI Descrip.	(AL138655) phosphatidylinositol-4-phosphate 5-kinase-like protein [Arabidopsis thaliana]		

Seq. No.	45478	Seq. ID	OJ000301_20.0330.C26
Gene No.	96156	Strand	+
Start	1	End	1205
Name	OJ000301_20.0330.C26.o1.gs	Method	GENSCAN
Start	66	End	1205

GI	none	Score	.71
Exons	66..259, 908..1205		
Seq. No.	45478	Seq. ID	OJ000301_20.0330.C26
Gene No.	96157	Strand	-
Start	2994	End	9908
Name	OJ000301_20.0330.C26.o1.tm	Method	TBLASTX:Maize
Start	60	End	577
GI	none	Score	335
Exons	60..230, 62..265, 63..254, 64..255, 65..289, 341..424, 342..449, 343..450, 506..577		

Seq. No.	45478	Seq. ID	OJ000301_20.0330.C26
Gene No.	96157	Strand	-
Start	2994	End	9908
Name	OJ000301_20.0330.C26.o1.tc	Method	TBLASTX:Cress
Start	62	End	1190
GI	none	Score	252
Exons	62..226, 63..251, 342..428, 343..423, 892..951, 1004..1189, 1005..1190, 1008..1190		

Seq. No.	45478	Seq. ID	OJ000301_20.0330.C26
Gene No.	96157	Strand	-
Start	2994	End	9908
Name	OJ000301_20.0330.C26.o1.ts	Method	TBLASTX:Soybean
Start	63	End	417
GI	none	Score	243
Exons	63..251, 63..230, 80..241, 342..416, 343..417		

Seq. No.	45478	Seq. ID	OJ000301_20.0330.C26
Gene No.	96157	Strand	-
Start	2994	End	9908
Name	OJ000301_20.0330.C26.o1.tw	Method	TBLASTX:Wheat
Start	332	End	1140
GI	none	Score	109
Exons	332..433, 343..438, 345..428, 346..429, 511..564, 518..568, 554..595, 554..604, 883..972, 891..1139, 903..1139, 904..1140, 1024..1140		

Seq. No.	45478	Seq. ID	OJ000301_20.0330.C26
Gene No.	96157	Strand	-
Start	2994	End	9908
Name	OJ000301_20.0330.C26.o2.ts	Method	TBLASTX:Soybean
Start	915	End	1201
GI	none	Score	50
Exons	915..980, 993..1196, 1007..1201, 1008..1181, 1013..1183		

Seq. No.	45478	Seq. ID	OJ000301_20.0330.C26
Gene No.	96157	Strand	-
Start	2994	End	9908
Name	OJ000301_20.0330.C26.o2.tm	Method	TBLASTX:Maize
Start	927	End	1189
GI	none	Score	403
Exons	927..1187, 927..1187, 932..1189, 932..1189		

Seq. No.	45478	Seq. ID	OJ000301_20.0330.C26
Gene No.	96157	Strand	-

Start	2994	End	9908
Name	OJ000301_20.0330.C26.o2.gs		Method GENSCAN
Start	2994	End	9622
GI	none	Score	.49
Exons	2994..3147, 3760..3970, 4513..4754, 4759..4895, 4980..5117, 5245..5373, 6450..6638, 6999..7065, 7402..7571, 8817..8877, 9573..9622		

Seq. No.	45478	Seq. ID	OJ000301_20.0330.C26
Gene No.	96157	Strand	-
Start	2994	End	9908
Name	OJ000301_20.0330.C26.o3.np	Method	AAT/NAP
Start	3768	End	9908
GI	7485968	Score	132
Exons	3768..3826, 4583..4665, 7394..7571, 8665..8748, 8817..8919, 9802..9908		

GI Descrip. hypothetical protein F22K18.220 - Arabidopsis thaliana  
gi|4220532|emb|CAA23005.1| (AL035356) putative protein  
[Arabidopsis thaliana] gi|7269308|emb|CAB79368.1| (AL161561)  
putative protein [Arabidopsis thaliana]

Seq. No.	45478	Seq. ID	OJ000301_20.0330.C26
Gene No.	96157	Strand	-
Start	2994	End	9908
Name	OJ000301_20.0330.C26.o2.np	Method	AAT/NAP
Start	4418	End	5703
GI	7438344	Score	209
Exons	4418..4579, 4680..5127, 5588..5703		
GI Descrip.	myb-related protein 1 - rice gi 2605617 dbj BAA23337.1  (D88617) OSMYB1 [Oryza sativa]		

Seq. No.	45478	Seq. ID	OJ000301_20.0330.C26
Gene No.	96157	Strand	-
Start	2994	End	9908
Name	OJ000301_20.0330.C26.o4.ts	Method	TBLASTX:Soybean
Start	4824	End	5129
GI	none	Score	111
Exons	4824..4886, 4979..5035, 5034..5129		

Seq. No.	45478	Seq. ID	OJ000301_20.0330.C26
Gene No.	96157	Strand	-
Start	2994	End	9908
Name	OJ000301_20.0330.C26.o3.tm	Method	TBLASTX:Maize
Start	6071	End	6611
GI	none	Score	75
Exons	6071..6130, 6122..6271, 6144..6371, 6146..6298, 6204..6371, 6441..6596, 6442..6597, 6450..6611		

Seq. No.	45478	Seq. ID	OJ000301_20.0330.C26
Gene No.	96157	Strand	-
Start	2994	End	9908
Name	OJ000301_20.0330.C26.o3.ts	Method	TBLASTX:Soybean
Start	6195	End	6362
GI	none	Score	.76
Exons	6195..6362, 6235..6354		

Seq. No.	45478	Seq. ID	OJ000301_20.0330.C26
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Gene No.	96157	Strand	-
Start	2994	End	9908
Name	OJ000301_20.0330.C26.o4.tm	Method	TBLASTX:Maize
Start	6989	End	9887
GI	none	Score	94
Exons	6989..7063, 6992..7063, 6997..7065, 6997..7065, 6999..7067, 7398..7532, 7401..7577, 7629..7751, 7644..7751, 7645..7758, 8662..8751, 8664..8750, 8665..8751, 8816..8878, 8817..8876, 9567..9623, 9572..9625, 9809..9886, 9810..9887		

Seq. No.	45478	Seq. ID	OJ000301_20.0330.C26
Gene No.	96157	Strand	-
Start	2994	End	9908
Name	OJ000301_20.0330.C26.o5.ts	Method	TBLASTX:Soybean
Start	7500	End	9626
GI	5057448	Score	51
Exons	7500..7574, 7501..7593, 7504..7602, 7644..7748, 7645..7758, 7653..7748, 8661..8750, 8662..8751, 8665..8751, 8817..8876, 8817..8876, 9567..9626		
GI Descrip.	4220532/emb_CAA23005_2.0e-11 (AL035356) putative protein [Arabidopsis thaliana]		

Seq. No.	45479	Seq. ID	OJ000301_20.0330.C27
Gene No.	96158	Strand	-
Start	1	End	2166
Name	OJ000301_20.0330.C27.o1.np	Method	AAT/NAP
Start	1	End	2166
GI	7485968	Score	252
Exons	1..32, 1138..1345, 1560..1842, 2132..2166		
GI Descrip.	hypothetical protein F22K18.220 - Arabidopsis thaliana gi 4220532 emb CAA23005.1  (AL035356) putative protein [Arabidopsis thaliana] gi 7269308 emb CAB79368.1  (AL161561) putative protein [Arabidopsis thaliana]		

Seq. No.	45479	Seq. ID	OJ000301_20.0330.C27
Gene No.	96158	Strand	-
Start	1	End	2166
Name	OJ000301_20.0330.C27.o1.tm	Method	TBLASTX:Maize
Start	1	End	1681
GI	none	Score	62
Exons	1..57, 14..55, 30..161, 30..164, 61..171, 77..175, 1112..1342, 1117..1245, 1285..1344, 1585..1680, 1586..1681, 1589..1681		

Seq. No.	45479	Seq. ID	OJ000301_20.0330.C27
Gene No.	96158	Strand	-
Start	1	End	2166
Name	OJ000301_20.0330.C27.o1.gs	Method	GENSCAN
Start	156	End	1829
GI	none	Score	.67
Exons	156..234, 1118..1345, 1586..1829		

Seq. No.	45479	Seq. ID	OJ000301_20.0330.C27
Gene No.	96158	Strand	-
Start	1	End	2166
Name	OJ000301_20.0330.C27.o1.ts	Method	TBLASTX:Soybean
Start	1108	End	1325
GI	none	Score	86

Exons 1108..1206, 1116..1172, 1118..1210, 1196..1324, 1198..1248, 1242..1325

Seq. No.	45479	Seq. ID	OJ000301_20.0330.C27
Gene No.	96158	Strand	-
Start	1	End	2166
Name	OJ000301_20.0330.C27.o1.tc	Method	TBLASTX:Cress
Start	1586	End	1858
GI	none	Score	64
Exons	1586..1702, 1613..1696, 1703..1858, 1722..1829		

Seq. No.	45479	Seq. ID	OJ000301_20.0330.C27
Gene No.	96158	Strand	-
Start	1	End	2166
Name	OJ000301_20.0330.C27.o2.tm	Method	TBLASTX:Maize
Start	1682	End	1859
GI	none	Score	198
Exons	1682..1858, 1685..1858, 1722..1859		

Seq. No.	45480	Seq. ID	OJ000301_20.0330.C28
Gene No.	96159	Strand	-
Start	1	End	3426
Name	OJ000301_20.0330.C28.o1.np	Method	AAT/NAP
Start	1	End	3426
GI	7485968	Score	389
Exons	1..30, 287..364, 470..589, 684..825, 1808..1884, 2622..2667, 3256..3426		

GI Descrip. hypothetical protein F22K18.220 - Arabidopsis thaliana  
gi|4220532|emb|CAA23005.1| (AL035356) putative protein  
[Arabidopsis thaliana] gi|7269308|emb|CAB79368.1| (AL161561)  
putative protein [Arabidopsis thaliana]

Seq. No.	45480	Seq. ID	OJ000301_20.0330.C28
Gene No.	96159	Strand	-
Start	1	End	3426
Name	OJ000301_20.0330.C28.o1.tm	Method	TBLASTX:Maize
Start	84	End	787
GI	none	Score	71
Exons	84..149, 85..150, 279..365, 280..366, 468..587, 469..588, 740..787		

Seq. No.	45480	Seq. ID	OJ000301_20.0330.C28
Gene No.	96159	Strand	-
Start	1	End	3426
Name	OJ000301_20.0330.C28.o1.gs	Method	GENSCAN
Start	93	End	1082
GI	none	Score	.97
Exons	93..148, 287..364, 470..589, 681..825, 961..1082		

Seq. No.	45480	Seq. ID	OJ000301_20.0330.C28
Gene No.	96159	Strand	-
Start	1	End	3426
Name	OJ000301_20.0330.C28.o1.ts	Method	TBLASTX:Soybean
Start	483	End	825
GI	none	Score	100
Exons	483..587, 484..588, 484..588, 691..825, 695..823		

Seq. No.	45480	Seq. ID	OJ000301_20.0330.C28
Gene No.	96159	Strand	-
Start	1	End	3426
Name	OJ000301_20.0330.C28.o2.tm	Method	TBLASTX:Maize
Start	733	End	1211
GI	none	Score	65
Exons	733..831, 734..826, 790..828, 956..1042, 962..1042, 1122..1211, 1124..1183		

Seq. No.	45480	Seq. ID	OJ000301_20.0330.C28
Gene No.	96159	Strand	-
Start	1	End	3426
Name	OJ000301_20.0330.C28.o1.tc	Method	TBLASTX:Cress
Start	751	End	2667
GI	none	Score	88
Exons	751..831, 752..826, 950..1042, 961..1041, 1122..1211, 1124..1183, 1799..1915, 1809..1886, 2620..2667		

Seq. No.	45481	Seq. ID	OJ000301_20.0330.C30
Gene No.	96160	Strand	-
Start	478	End	577
Name	OJ000301_20.0330.C30.o1.gs	Method	GENSCAN
Start	478	End	577
GI	none	Score	.65
Exons	478..577		

Seq. No.	45482	Seq. ID	OJ000301_22.0330.C1
Gene No.	96161	Strand	+
Start	1	End	607
Name	OJ000301_22.0330.C1.o1.np	Method	AAT/NAP
Start	1	End	607
GI	7486142	Score	489
Exons	1..607		
GI Descrip.	hypothetical protein F25I24.200 - Arabidopsis thaliana gi 4539373 emb CAB40067.1  (AL049525) putative retrotransposon polyprotein [Arabidopsis thaliana] gi 7267797 emb CAB81200.1  (AL161518) putative retrotransposon polyprotein [Arabidopsis thaliana]		

Seq. No.	45482	Seq. ID	OJ000301_22.0330.C1
Gene No.	96162	Strand	+
Start	9841	End	10194
Name	OJ000301_22.0330.C1.o2.gs	Method	GENSCAN
Start	9841	End	10194
GI	none	Score	.71
Exons	9841..9953, 9979..10010, 10121..10194		

Seq. No.	45482	Seq. ID	OJ000301_22.0330.C1
Gene No.	96163	Strand	-
Start	469	End	14028
Name	OJ000301_22.0330.C1.o3.tm	Method	TBLASTX:Maize
Start	1	End	657
GI	none	Score	273
Exons	1..423, 433..657		

Seq. No.	45482	Seq. ID	OJ000301_22.0330.C1
Gene No.	96163	Strand	-

Start 469  
Name OJ000301\_22.0330.C1.o3.tw  
Start 3  
GI none  
Exons 3..68, 4..249

End 14028  
Method TBLASTX:Wheat  
End 249  
Score 185

Seq. No. 45482  
Gene No. 96163  
Start 469  
Name OJ000301\_22.0330.C1.o2.ts  
Start 13  
GI none  
Exons 13..657, 219..530

Seq. ID OJ000301\_22.0330.C1  
Strand -  
End 14028  
Method TBLASTX:Soybean  
End 657  
Score 409

Seq. No. 45482  
Gene No. 96163  
Start 469  
Name OJ000301\_22.0330.C1.o1.gs  
Start 469  
GI none  
Exons 469..661, 1173..2254, 2339..2437, 2845..2982, 3101..3849, 4266..4340, 5278..5389, 5671..5814, 8180..9307

Seq. ID OJ000301\_22.0330.C1  
Strand -  
End 14028  
Method GENSCAN  
End 9307  
Score .49

Seq. No. 45482  
Gene No. 96163  
Start 469  
Name OJ000301\_22.0330.C1.o1.tm  
Start 2405  
GI none  
Exons 2405..2491, 2667..2876, 2676..2873, 2686..2877, 2870..2941, 2889..2924, 2969..3148, 2969..3148, 3137..3415, 3140..3415, 3413..3772, 3413..3793, 3788..3841, 3791..3850, 4261..4338, 4261..4362, 4262..4345

Seq. ID OJ000301\_22.0330.C1  
Strand -  
End 14028  
Method TBLASTX:Maize  
End 4362  
Score 119

Seq. No. 45482  
Gene No. 96163  
Start 469  
Name OJ000301\_22.0330.C1.o1.ts  
Start 2405  
GI none  
Exons 2405..2491, 2505..2576, 2667..2876, 2674..2877, 2870..2941, 2871..2915, 2969..3148, 2984..3148, 3137..3415, 3140..3415, 3413..3793, 3429..3791, 3791..3850, 3792..3851, 4261..4362

Seq. ID OJ000301\_22.0330.C1  
Strand -  
End 14028  
Method TBLASTX:Soybean  
End 4362  
Score 62

Seq. No. 45482  
Gene No. 96163  
Start 469  
Name OJ000301\_22.0330.C1.o2.np  
Start 2411  
GI 6015065  
Exons 2411..2575, 2673..3849, 4266..4356  
GI Descrip. ELONGATION FACTOR 2 (EF-2) gi|2369714|emb|CAB09900| (Z97178)  
elongation factor 2 [Beta vulgaris]

Seq. ID OJ000301\_22.0330.C1  
Strand -  
End 14028  
Method AAT/NAP  
End 4356  
Score 1090

Seq. No. 45482  
Gene No. 96163  
Start 469

Seq. ID OJ000301\_22.0330.C1  
Strand -  
End 14028



Name	OJ000301_22.0330.C1.o1.tc	Method	TBLASTX:Cress
Start	2505	End	3415
GI	none	Score	145
Exons	2505..2576, 2667..2876, 2674..2877, 2870..2941, 2871..2915, 2952..3137, 2954..3148, 3137..3415, 3140..3415		

Seq. No.	45482	Seq. ID	OJ000301_22.0330.C1
Gene No.	96163	Strand	-
Start	469	End	14028
Name	OJ000301_22.0330.C1.o1.tw	Method	TBLASTX:Wheat
Start	2870	End	3238
GI	none	Score	44
Exons	2870..2941, 2871..2942, 2969..3148, 2985..3137, 2987..3148, 3140..3238, 3147..3200		

Seq. No.	45482	Seq. ID	OJ000301_22.0330.C1
Gene No.	96163	Strand	-
Start	469	End	14028
Name	OJ000301_22.0330.C1.o2.tc	Method	TBLASTX:Cress
Start	3416	End	4426
GI	none	Score	212
Exons	3416..3793, 3429..3791, 3791..3850, 3792..3851, 4261..4356, 4265..4426		

Seq. No.	45482	Seq. ID	OJ000301_22.0330.C1
Gene No.	96163	Strand	-
Start	469	End	14028
Name	OJ000301_22.0330.C1.o2.tw	Method	TBLASTX:Wheat
Start	3507	End	4374
GI	none	Score	144
Exons	3507..3791, 3507..3647, 3509..3793, 3788..3835, 3791..3850, 4261..4344, 4261..4374		

Seq. No.	45482	Seq. ID	OJ000301_22.0330.C1
Gene No.	96163	Strand	-
Start	469	End	14028
Name	OJ000301_22.0330.C1.o3.np	Method	AAT/NAP
Start	3658	End	14028
GI	5042438	Score	71
Exons	3658..3734, 8400..8608, 9178..9248, 10694..10789, 13921..14028		
GI Descrip.	(AC007789) hypothetical protein [Oryza sativa]		

Seq. No.	45482	Seq. ID	OJ000301_22.0330.C1
Gene No.	96163	Strand	-
Start	469	End	14028
Name	OJ000301_22.0330.C1.o1.gp	Method	AAT/GAP
Start	10788	End	11893
GI	15432_1.R1084	Score	1508
Exons	10788..11286, 11578..11893		
GI Descrip.	'5541697/emb CAB51202.1  3.0e-18 (AL096860) putative protein [Arabidopsis thaliana]'		

Seq. No.	45482	Seq. ID	OJ000301_22.0330.C1
Gene No.	96163	Strand	-
Start	469	End	14028
Name	OJ000301_22.0330.C1.o2.tm	Method	TBLASTX:Maize
Start	10817	End	13836

GI	none	Score	41
Exons	10817..10945, 11042..11086, 11052..11075, 11128..11301, 11170..11286, 11183..11287, 11550..11741, 11570..11896, 11570..11893, 11575..11895, 13396..13467, 13397..13459, 13762..13836		

Seq. No.	45482	Seq. ID	OJ000301_22.0330.C1
Gene No.	96163	Strand	-
Start	469	End	14028
Name	OJ000301_22.0330.C1.o4.np	Method	AAT/NAP
Start	10868	End	13835
GI	7460124	Score	470
Exons	10868..10960, 11578..11893, 13397..13464, 13681..13835		
GI Descrip.	hypothetical protein T21L8.50 - Arabidopsis thaliana gi 5541697 emb CAB51202.1  (AL096860) putative protein [Arabidopsis thaliana]		

Seq. No.	45482	Seq. ID	OJ000301_22.0330.C1
Gene No.	96163	Strand	-
Start	469	End	14028
Name	OJ000301_22.0330.C1.o3.ts	Method	TBLASTX:Soybean
Start	11164	End	11760
GI	none	Score	166
Exons	11164..11286, 11570..11710, 11575..11715, 11576..11710, 11692..11760, 11702..11746		

Seq. No.	45482	Seq. ID	OJ000301_22.0330.C1
Gene No.	96163	Strand	-
Start	469	End	14028
Name	OJ000301_22.0330.C1.o3.gs	Method	GENSCAN
Start	11170	End	13889
GI	none	Score	.74
Exons	11170..11286, 11578..11722, 13563..13889		

Seq. No.	45482	Seq. ID	OJ000301_22.0330.C1
Gene No.	96163	Strand	-
Start	469	End	14028
Name	OJ000301_22.0330.C1.o2.gp	Method	AAT/GAP
Start	13348	End	13844
GI	5003177	Score	651
Exons	13348..13467, 13563..13844		

Seq. No.	45483	Seq. ID	OJ000301_22.0330.C2
Gene No.	96164	Strand	-
Start	303	End	4879
Name	OJ000301_22.0330.C2.o1.gs	Method	GENSCAN
Start	303	End	4879
GI	none	Score	.68
Exons	303..379, 2343..2491, 2687..2720, 4588..4670, 4700..4825, 4836..4879		

Seq. No.	45483	Seq. ID	OJ000301_22.0330.C2
Gene No.	96165	Strand	-
Start	7025	End	7842
Name	OJ000301_22.0330.C2.o2.gs	Method	GENSCAN
Start	7025	End	7842
GI	none	Score	.9

Exons 7025..7108, 7789..7842

Seq. No. 45484 Seq. ID OJ000301\_22.0330.C3  
Gene No. 96166 Strand +  
Start 1 End 4551  
Name OJ000301\_22.0330.C3.o1.np Method AAT/NAP  
Start 1 End 4551  
GI 1314711 Score 1776  
Exons 1..59, 108..681, 2140..2283, 2367..2519, 3227..3342, 3426..3593,  
4133..4201, 4277..4363, 4449..4551  
GI Descrip. (U54615) calcium-dependent protein kinase [Arabidopsis thaliana]  
gi|3068712|gb|AAC14412.1| (AF049236) calcium dependent protein  
kinase [Arabidopsis thaliana]

Seq. No. 45484 Seq. ID OJ000301\_22.0330.C3  
Gene No. 96166 Strand +  
Start 1 End 4551  
Name OJ000301\_22.0330.C3.o1.gs Method GENSCAN  
Start 79 End 4363  
GI none Score .86  
Exons 79..681, 2140..2283, 2328..2519, 3227..3342, 3426..3593,  
4133..4363

Seq. No. 45484 Seq. ID OJ000301\_22.0330.C3  
Gene No. 96166 Strand +  
Start 1 End 4551  
Name OJ000301\_22.0330.C3.o1.gp Method AAT/GAP  
Start 3520 End 4490  
GI 62134\_1.R1084 Score 636  
Exons 3520..3593, 4133..4363, 4449..4490  
GI Descrip. '5326544/emb|CAB46228.1| 3.0e-26 (Y18055) calcium dependent  
protein kinase [Arachis hypogaea]'

Seq. No. 45484 Seq. ID OJ000301\_22.0330.C3  
Gene No. 96167 Strand -  
Start 4451 End 4551  
Name OJ000301\_22.0330.C3.o1.tm Method TBLASTX:Maize  
Start 48 End 515  
GI none Score 76  
Exons 48..110, 53..109, 150..203, 162..194, 198..515, 198..506

Seq. No. 45484 Seq. ID OJ000301\_22.0330.C3  
Gene No. 96167 Strand -  
Start 4451 End 4551  
Name OJ000301\_22.0330.C3.o1.ts Method TBLASTX:Soybean  
Start 198 End 4547  
GI none Score 666  
Exons 198..578, 204..686, 563..685, 2137..2280, 2138..2287,  
2139..2288, 2348..2518, 2362..2514, 2363..2515, 3220..3345,  
3243..3344, 3417..3524, 3423..3593, 3425..3592, 4106..4363,  
4135..4242, 4315..4365, 4446..4547, 4448..4528

Seq. No. 45484 Seq. ID OJ000301\_22.0330.C3  
Gene No. 96167 Strand -  
Start 4451 End 4551  
Name OJ000301\_22.0330.C3.o1.tc Method TBLASTX:Cress  
Start 204 End 4541

GI	none	Score	653
Exons	204..686, 215..499, 572..685, 2138..2287, 2139..2306, 2362..2514, 2363..2518, 3220..3345, 3235..3327, 3243..3344, 3417..3524, 3423..3590, 3425..3589, 4135..4242, 4136..4363, 4335..4364, 4446..4541, 4448..4531		

Seq. No.	45484	Seq. ID	OJ000301_22.0330.C3
Gene No.	96167	Strand	-
Start	4451	End	4551
Name	OJ000301_22.0330.C3.o2.tw	Method	TBLASTX:Wheat
Start	345	End	619
GI	none	Score	292
Exons	345..617, 345..506, 395..619		

Seq. No.	45484	Seq. ID	OJ000301_22.0330.C3
Gene No.	96167	Strand	-
Start	4451	End	4551
Name	OJ000301_22.0330.C3.o4.tm	Method	TBLASTX:Maize
Start	527	End	686
GI	none	Score	242
Exons	527..685, 528..686		

Seq. No.	45484	Seq. ID	OJ000301_22.0330.C3
Gene No.	96167	Strand	-
Start	4451	End	4551
Name	OJ000301_22.0330.C3.o1.tw	Method	TBLASTX:Wheat
Start	620	End	3258
GI	none	Score	67
Exons	620..679, 623..685, 627..686, 2138..2281, 2138..2287, 2139..2288, 2140..2289, 2348..2518, 2362..2517, 2366..2518, 3220..3258		

Seq. No.	45484	Seq. ID	OJ000301_22.0330.C3
Gene No.	96167	Strand	-
Start	4451	End	4551
Name	OJ000301_22.0330.C3.o3.tm	Method	TBLASTX:Maize
Start	2138	End	2499
GI	none	Score	244
Exons	2138..2287, 2139..2288, 2348..2494, 2362..2499, 2367..2495		

Seq. No.	45484	Seq. ID	OJ000301_22.0330.C3
Gene No.	96167	Strand	-
Start	4451	End	4551
Name	OJ000301_22.0330.C3.o2.tm	Method	TBLASTX:Maize
Start	3219	End	4541
GI	none	Score	204
Exons	3219..3344, 3220..3345, 3226..3348, 3228..3362, 3417..3524, 3423..3596, 3425..3595, 3446..3526, 4106..4363, 4118..4342, 4214..4360, 4315..4365, 4335..4370, 4446..4541, 4446..4526, 4448..4540		

Seq. No.	45484	Seq. ID	OJ000301_22.0330.C3
Gene No.	96167	Strand	-
Start	4451	End	4551
Name	OJ000301_22.0330.C3.o2.gp	Method	AAT/GAP
Start	4451	End	4551
GI	38757_1.R1084	Score	143

Exons 4451..4551  
 GI Descrip. '1314712 3.0e-14 (U54615) calcium-dependent protein kinase [Arabidopsis thaliana]'

Seq. No.	45485	Seq. ID	OJ000301_22.0330.C5
Gene No.	96168	Strand	+
Start	1	End	3644
Name	OJ000301_22.0330.C5.o1.np	Method	AAT/NAP
Start	1	End	3644
GI	4587987	Score	922
Exons	1..80, 447..496, 707..900, 1564..1811, 1903..2182, 2281..2388, 2742..3031, 3621..3644		
GI Descrip.	(AF085279) hypothetical Ser-Thr protein kinase [Arabidopsis thaliana] gi 6598931 gb AAF18726.1 AC018721_1 (AC018721) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	45485	Seq. ID	OJ000301_22.0330.C5
Gene No.	96168	Strand	+
Start	1	End	3644
Name	OJ000301_22.0330.C5.o1.gs	Method	GENSCAN
Start	301	End	3635
GI	none	Score	.93
Exons	301..496, 707..1315, 1508..1811, 1903..2182, 2281..2388, 2742..3020, 3621..3635		

Seq. No.	45485	Seq. ID	OJ000301_22.0330.C5
Gene No.	96168	Strand	+
Start	1	End	3644
Name	OJ000301_22.0330.C5.o2.tm	Method	TBLASTX:Maize
Start	1030	End	1737
GI	none	Score	45
Exons	1030..1050, 1074..1100, 1075..1101, 1086..1199, 1087..1173, 1098..1178, 1194..1316, 1201..1317, 1204..1326, 1205..1318, 1501..1725, 1519..1737		

Seq. No.	45485	Seq. ID	OJ000301_22.0330.C5
Gene No.	96168	Strand	+
Start	1	End	3644
Name	OJ000301_22.0330.C5.o1.tm	Method	TBLASTX:Maize
Start	1765	End	3032
GI	none	Score	62
Exons	1765..1812, 1868..2182, 1871..2179, 1900..2184, 1977..2183, 2278..2388, 2280..2369, 2284..2370, 2739..3032, 2744..3028		

Seq. No.	45485	Seq. ID	OJ000301_22.0330.C5
Gene No.	96168	Strand	+
Start	1	End	3644
Name	OJ000301_22.0330.C5.o2.ts	Method	TBLASTX:Soybean
Start	1897	End	2140
GI	none	Score	148
Exons	1897..2121, 1900..2139, 1901..2140		

Seq. No.	45485	Seq. ID	OJ000301_22.0330.C5
Gene No.	96168	Strand	+
Start	1	End	3644
Name	OJ000301_22.0330.C5.o1.tw	Method	TBLASTX:Wheat
Start	1910	End	2352

GI	none	Score	379
Exons	1910..2182, 1910..2179, 1977..2189, 2278..2352, 2280..2351		

Seq. No.	45485	Seq. ID	OJ000301_22.0330.C5
Gene No.	96168	Strand	+
Start	1	End	3644
Name	OJ000301_22.0330.C5.o1.tc	Method	TBLASTX:Cress
Start	2144	End	3032
GI	none	Score	62
Exons	2144..2182, 2278..2388, 2280..2387, 2739..3032, 2756..3028		

Seq. No.	45485	Seq. ID	OJ000301_22.0330.C5
Gene No.	96168	Strand	+
Start	1	End	3644
Name	OJ000301_22.0330.C5.o1.ts	Method	TBLASTX:Soybean
Start	2739	End	3029
GI	none	Score	460
Exons	2739..3029, 2744..3022		

Seq. No.	45486	Seq. ID	OJ000301_22.0330.C6
Gene No.	96169	Strand	+
Start	1	End	694
Name	OJ000301_22.0330.C6.o1.np	Method	AAT/NAP
Start	1	End	694
GI	4587987	Score	113
Exons	1..38, 492..694		
GI Descrip.	(AF085279) hypothetical Ser-Thr protein kinase [Arabidopsis thaliana] gi 6598931 gb AAF18726.1 AC018721_1 (AC018721) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	45486	Seq. ID	OJ000301_22.0330.C6
Gene No.	96170	Strand	+
Start	4719	End	7133
Name	OJ000301_22.0330.C6.o2.gs	Method	GENSCAN
Start	4719	End	7071
GI	none	Score	.57
Exons	4719..4771, 4909..5036, 5679..5995, 6672..6745, 6846..7071		

Seq. No.	45486	Seq. ID	OJ000301_22.0330.C6
Gene No.	96170	Strand	+
Start	4719	End	7133
Name	OJ000301_22.0330.C6.o2.gp	Method	AAT/GAP
Start	5790	End	7133
GI	14342_1.R1084	Score	1221
Exons	5790..5995, 6672..7133		
GI Descrip.	'5731754/emb CAB52555.1  2.0e-30 (AL109819) putative protein [Arabidopsis thaliana]'		

Seq. No.	45486	Seq. ID	OJ000301_22.0330.C6
Gene No.	96170	Strand	+
Start	4719	End	7133
Name	OJ000301_22.0330.C6.o3.np	Method	AAT/NAP
Start	5881	End	7056
GI	7487494	Score	290
Exons	5881..5995, 6672..7056		
GI Descrip.	hypothetical protein T28D5.20 - Arabidopsis thaliana gi 5731754 emb CAB52555.1  (AL109819) putative protein		

[Arabidopsis thaliana] gi|7267474|emb|CAB77958.1| (AL161511)  
putative protein [Arabidopsis thaliana]

Seq. No.	45486	Seq. ID	OJ000301_22.0330.C6
Gene No.	96171	Strand	-
Start	476	End	5940
Name	OJ000301_22.0330.C6.o1.gs	Method	GENSCAN
Start	476	End	3695
GI	none	Score	.86
Exons	476..610, 1750..1903, 2327..2408, 2700..2832, 3363..3467, 3639..3695		

Seq. No.	45486	Seq. ID	OJ000301_22.0330.C6
Gene No.	96171	Strand	-
Start	476	End	5940
Name	OJ000301_22.0330.C6.o2.np	Method	AAT/NAP
Start	1578	End	5940
GI	6572952	Score	93
Exons	1578..1650, 1745..1889, 2317..2408, 2495..2638, 2784..2832, 5894..5940		

GI Descrip. (AF189773) NLI-interacting factor isoform T1; NLI/Ldb1/CLIM interacting factor [Gallus gallus]

Seq. No.	45486	Seq. ID	OJ000301_22.0330.C6
Gene No.	96171	Strand	-
Start	476	End	5940
Name	OJ000301_22.0330.C6.o1.gp	Method	AAT/GAP
Start	3582	End	3872
GI	none	Score	554
Exons	3582..3872		

Seq. No.	45486	Seq. ID	OJ000301_22.0330.C6
Gene No.	96172	Strand	-
Start	8112	End	8276
Name	OJ000301_22.0330.C6.o2.tm	Method	TBLASTX:Maize
Start	512	End	699
GI	none	Score	256
Exons	512..691, 514..699, 515..685		

Seq. No.	45486	Seq. ID	OJ000301_22.0330.C6
Gene No.	96172	Strand	-
Start	8112	End	8276
Name	OJ000301_22.0330.C6.o3.tc	Method	TBLASTX:Cress
Start	515	End	688
GI	none	Score	181
Exons	515..688		

Seq. No.	45486	Seq. ID	OJ000301_22.0330.C6
Gene No.	96172	Strand	-
Start	8112	End	8276
Name	OJ000301_22.0330.C6.o1.tm	Method	TBLASTX:Maize
Start	1507	End	2738
GI	none	Score	179
Exons	1507..1662, 1515..1661, 1521..1664, 1747..1902, 1754..1906, 1755..1910, 2317..2394, 2338..2409, 2505..2618, 2506..2616, 2510..2617, 2702..2737, 2703..2738, 2704..2736		

Seq. No.	45486	Seq. ID	OJ000301_22.0330.C6
Gene No.	96172	Strand	-
Start	8112	End	8276
Name	OJ000301_22.0330.C6.o2.tc	Method	TBLASTX:Cress
Start	1548	End	1842
GI	none	Score	93
Exons	1548..1661, 1549..1665, 1747..1842, 1757..1840		

Seq. No.	45486	Seq. ID	OJ000301_22.0330.C6
Gene No.	96172	Strand	-
Start	8112	End	8276
Name	OJ000301_22.0330.C6.o2.ts	Method	TBLASTX:Soybean
Start	1548	End	1851
GI	none	Score	129
Exons	1548..1661, 1549..1653, 1747..1851, 1757..1849		

Seq. No.	45486	Seq. ID	OJ000301_22.0330.C6
Gene No.	96172	Strand	-
Start	8112	End	8276
Name	OJ000301_22.0330.C6.o3.ts	Method	TBLASTX:Soybean
Start	2511	End	2823
GI	none	Score	43
Exons	2511..2567, 2524..2568, 2560..2616, 2562..2618, 2704..2823		

Seq. No.	45486	Seq. ID	OJ000301_22.0330.C6
Gene No.	96172	Strand	-
Start	8112	End	8276
Name	OJ000301_22.0330.C6.o1.tc	Method	TBLASTX:Cress
Start	6669	End	6931
GI	none	Score	84
Exons	6669..6836, 6669..6836, 6670..6837, 6842..6931, 6859..6930		

Seq. No.	45486	Seq. ID	OJ000301_22.0330.C6
Gene No.	96172	Strand	-
Start	8112	End	8276
Name	OJ000301_22.0330.C6.o1.ts	Method	TBLASTX:Soybean
Start	6669	End	7046
GI	none	Score	81
Exons	6669..6779, 6669..6836, 6670..6837, 6843..6917, 6844..6939, 6984..7046		

Seq. No.	45486	Seq. ID	OJ000301_22.0330.C6
Gene No.	96172	Strand	-
Start	8112	End	8276
Name	OJ000301_22.0330.C6.o3.tm	Method	TBLASTX:Maize
Start	6669	End	7035
GI	none	Score	197
Exons	6669..6830, 6670..6831, 6850..6921, 6985..7035		

Seq. No.	45486	Seq. ID	OJ000301_22.0330.C6
Gene No.	96172	Strand	-
Start	8112	End	8276
Name	OJ000301_22.0330.C6.o3.gp	Method	AAT/GAP
Start	8112	End	8276
GI	666_15.R1084	Score	304
Exons	8112..8276		
GI Descrip.	'122106/sp P02308 H4_WHEAT 8.0e-40 HISTONE H4		



>gi\_70771\_pir\_HSZM4 histone H4 - maize >gi\_81642\_pir\_S06904  
histone H4 - Arabidopsis thaliana >gi\_2119028\_pir\_S60475  
histone H4 - garden pea >gi\_21795\_emb\_CAA24924\_ (X00043) histone  
H4 [Triticum aestivum] >gi\_166740\_ (M17132) histone H4  
[Arabidopsis thaliana] >gi\_166742\_ (M17133) histone H4  
[Arabidopsis thaliana] >gi\_168499\_ (M36659) histo'

Seq. No.	45487	Seq. ID	OJ000301_22.0330.C7
Gene No.	96173	Strand	+
Start	1	End	111
Name	OJ000301_22.0330.C7.o1.gp	Method	AAT/GAP
Start	1	End	111
GI	666_15.R1084	Score	210
Exons	1..111		
GI Descrip.	'122106/sp P02308 H4_WHEAT 8.0e-40 HISTONE H4		

>gi\_70771\_pir\_HSZM4 histone H4 - maize >gi\_81642\_pir\_S06904  
histone H4 - Arabidopsis thaliana >gi\_2119028\_pir\_S60475  
histone H4 - garden pea >gi\_21795\_emb\_CAA24924\_ (X00043) histone  
H4 [Triticum aestivum] >gi\_166740\_ (M17132) histone H4  
[Arabidopsis thaliana] >gi\_166742\_ (M17133) histone H4  
[Arabidopsis thaliana] >gi\_168499\_ (M36659) histo'

Seq. No.	45487	Seq. ID	OJ000301_22.0330.C7
Gene No.	96174	Strand	+
Start	31	End	2749
Name	OJ000301_22.0330.C7.o1.gs	Method	GENSCAN
Start	31	End	2749
GI	none	Score	.72
Exons	31..105, 1944..2017, 2062..2122, 2129..2749		

Seq. No.	45487	Seq. ID	OJ000301_22.0330.C7
Gene No.	96174	Strand	+
Start	31	End	2749
Name	OJ000301_22.0330.C7.o1.np	Method	AAT/NAP
Start	1499	End	1998
GI	7523517	Score	235
Exons	1499..1799, 1944..1998		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	45488	Seq. ID	OJ000301_22.0330.C8
Gene No.	96175	Strand	+
Start	1	End	772
Name	OJ000301_22.0330.C8.o1.np	Method	AAT/NAP
Start	1	End	772
GI	6721562	Score	445
Exons	1..772		
GI Descrip.	(AP001073) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa] gi 6815087 dbj BAA90373.1  (AP001081) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa]		

Seq. No.	45488	Seq. ID	OJ000301_22.0330.C8
Gene No.	96175	Strand	+
Start	1	End	772
Name	OJ000301_22.0330.C8.o1.gs	Method	GENSCAN
Start	94	End	711

GI	none	Score	.42
Exons	94..285, 344..532, 540..711		
Seq. No.	45488	Seq. ID	OJ000301_22.0330.C8
Gene No.	96175	Strand	+
Start	1	End	772
Name	OJ000301_22.0330.C8.o1.tm	Method	TBLASTX:Maize
Start	321	End	560
GI	none	Score	182
Exons	321..560		
Seq. No.	45488	Seq. ID	OJ000301_22.0330.C8
Gene No.	96175	Strand	+
Start	1	End	772
Name	OJ000301_22.0330.C8.o1.tw	Method	TBLASTX:Wheat
Start	324	End	722
GI	none	Score	260
Exons	324..722, 338..376, 449..622		
Seq. No.	45489	Seq. ID	OJ000301_22.0330.C9
Gene No.	96176	Strand	+
Start	1	End	11742
Name	OJ000301_22.0330.C9.o1.np	Method	AAT/NAP
Start	1	End	11742
GI	7228457	Score	2682
Exons	1..103, 258..942, 997..2602, 2669..2881, 4443..4586, 10549..11742		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		
Seq. No.	45489	Seq. ID	OJ000301_22.0330.C9
Gene No.	96176	Strand	+
Start	1	End	11742
Name	OJ000301_22.0330.C9.o1.gs	Method	GENSCAN
Start	400	End	4573
GI	none	Score	.47
Exons	400..1032, 1120..1880, 1990..2881, 3869..4022, 4467..4573		
Seq. No.	45489	Seq. ID	OJ000301_22.0330.C9
Gene No.	96176	Strand	+
Start	1	End	11742
Name	OJ000301_22.0330.C9.o4.gs	Method	GENSCAN
Start	10673	End	11511
GI	none	Score	.56
Exons	10673..10895, 10910..11511		
Seq. No.	45489	Seq. ID	OJ000301_22.0330.C9
Gene No.	96177	Strand	+
Start	15830	End	16328
Name	OJ000301_22.0330.C9.o4.np	Method	AAT/NAP
Start	15830	End	16328
GI	7523517	Score	229
Exons	15830..16130, 16274..16328		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		
Seq. No.	45489	Seq. ID	OJ000301_22.0330.C9

Gene No.	96178	Strand	+
Start	17603	End	21022
Name	OJ000301_22.0330.C9.o5.np	Method	AAT/NAP
Start	17603	End	21022
GI	2160165	Score	961
Exons	17603..17738, 17776..18554, 18627..20246, 20907..21022		
GI Descrip.	(AC000132) F21M12.11 gene product [Arabidopsis thaliana]		

Seq. No.	45489	Seq. ID	OJ000301_22.0330.C9
Gene No.	96178	Strand	+
Start	17603	End	21022
Name	OJ000301_22.0330.C9.o2.gp	Method	AAT/GAP
Start	20039	End	20465
GI	31138_1.R1084	Score	830
Exons	20039..20465		
GI Descrip.	'4544438/gb AAD22346.1 AC006592_3 2.0e-11 (AC006592) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	45489	Seq. ID	OJ000301_22.0330.C9
Gene No.	96179	Strand	+
Start	22004	End	24403
Name	OJ000301_22.0330.C9.o6.np	Method	AAT/NAP
Start	22004	End	24231
GI	6358789	Score	141
Exons	22004..22052, 23858..23971, 24071..24231		
GI Descrip.	(AC010852) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45489	Seq. ID	OJ000301_22.0330.C9
Gene No.	96179	Strand	+
Start	22004	End	24403
Name	OJ000301_22.0330.C9.o7.gs	Method	GENSCAN
Start	23268	End	24403
GI	none	Score	.84
Exons	23268..23693, 23792..24403		

Seq. No.	45489	Seq. ID	OJ000301_22.0330.C9
Gene No.	96180	Strand	-
Start	3621	End	4002
Name	OJ000301_22.0330.C9.o1.gp	Method	AAT/GAP
Start	3621	End	4002
GI	uC-osflcyp033a04b1	Score	659
Exons	3621..4002		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	45489	Seq. ID	OJ000301_22.0330.C9
Gene No.	96181	Strand	-
Start	8779	End	9912
Name	OJ000301_22.0330.C9.o3.gs	Method	GENSCAN
Start	8779	End	9912
GI	none	Score	.98
Exons	8779..9912		

Seq. No.	45489	Seq. ID	OJ000301_22.0330.C9
Gene No.	96182	Strand	-
Start	11876	End	16147
Name	OJ000301_22.0330.C9.o4.tw	Method	TBLASTX:Wheat

Start	427	End	882
GI	none	Score	146
Exons	427..609, 435..536, 646..882, 648..764, 658..867		

Seq. No.	45489	Seq. ID	OJ000301_22.0330.C9
Gene No.	96182	Strand	-
Start	11876	End	16147
Name	OJ000301_22.0330.C9.o1.tw	Method	TBLASTX:Wheat
Start	1074	End	1489
GI	none	Score	155
Exons	1074..1247, 1075..1245, 1158..1478, 1237..1488, 1397..1489		

Seq. No.	45489	Seq. ID	OJ000301_22.0330.C9
Gene No.	96182	Strand	-
Start	11876	End	16147
Name	OJ000301_22.0330.C9.o2.tm	Method	TBLASTX:Maize
Start	1237	End	1521
GI	none	Score	361
Exons	1237..1521, 1240..1377, 1242..1520		

Seq. No.	45489	Seq. ID	OJ000301_22.0330.C9
Gene No.	96182	Strand	-
Start	11876	End	16147
Name	OJ000301_22.0330.C9.o5.tm	Method	TBLASTX:Maize
Start	1549	End	1932
GI	none	Score	323
Exons	1549..1932, 1620..1931		

Seq. No.	45489	Seq. ID	OJ000301_22.0330.C9
Gene No.	96182	Strand	-
Start	11876	End	16147
Name	OJ000301_22.0330.C9.o2.tw	Method	TBLASTX:Wheat
Start	1606	End	2001
GI	none	Score	438
Exons	1606..2001, 1620..1988, 1708..1995		

Seq. No.	45489	Seq. ID	OJ000301_22.0330.C9
Gene No.	96182	Strand	-
Start	11876	End	16147
Name	OJ000301_22.0330.C9.o1.ts	Method	TBLASTX:Soybean
Start	1684	End	2083
GI	none	Score	257
Exons	1684..2001, 1686..1844, 2003..2083		

Seq. No.	45489	Seq. ID	OJ000301_22.0330.C9
Gene No.	96182	Strand	-
Start	11876	End	16147
Name	OJ000301_22.0330.C9.o6.tw	Method	TBLASTX:Wheat
Start	2174	End	2581
GI	none	Score	212
Exons	2174..2398, 2227..2400, 2408..2581, 2501..2578		

Seq. No.	45489	Seq. ID	OJ000301_22.0330.C9
Gene No.	96182	Strand	-
Start	11876	End	16147
Name	OJ000301_22.0330.C9.o7.tw	Method	TBLASTX:Wheat
Start	2620	End	2878

GI none  
Exons 2620..2874, 2621..2878

Score 186

Seq. No. 45489  
Gene No. 96182  
Start 11876  
Name OJ000301\_22.0330.C9.o3.tm  
Start 10615  
GI none  
Exons 10615..10941, 10635..10922

Seq. ID OJ000301\_22.0330.C9  
Strand -  
End 16147  
Method TBLASTX:Maize  
End 10941  
Score 348

Seq. No. 45489  
Gene No. 96182  
Start 11876  
Name OJ000301\_22.0330.C9.o5.tw  
Start 10618  
GI none  
Exons 10618..11001, 10626..11000

Seq. ID OJ000301\_22.0330.C9  
Strand -  
End 16147  
Method TBLASTX:Wheat  
End 11001  
Score 364

Seq. No. 45489  
Gene No. 96182  
Start 11876  
Name OJ000301\_22.0330.C9.o3.tw  
Start 11125  
GI none  
Exons 11125..11577, 11139..11228, 11607..11732, 15838..15900

Seq. ID OJ000301\_22.0330.C9  
Strand -  
End 16147  
Method TBLASTX:Wheat  
End 15900  
Score 351

Seq. No. 45489  
Gene No. 96182  
Start 11876  
Name OJ000301\_22.0330.C9.o5.gs  
Start 11876  
GI none  
Exons 11876..11968, 12328..12476, 13248..14009, 14077..14135, 14749..14821, 15029..15125, 16062..16147

Seq. ID OJ000301\_22.0330.C9  
Strand -  
End 16147  
Method GENSCAN  
End 16147  
Score .8

Seq. No. 45489  
Gene No. 96182  
Start 11876  
Name OJ000301\_22.0330.C9.o2.np  
Start 13247  
GI 6721561  
Exons 13247..14009, 14077..14135, 14206..14425, 14823..14858  
GI Descrip. (AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]  
gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. ID OJ000301\_22.0330.C9  
Strand -  
End 16147  
Method AAT/NAP  
End 14858  
Score 1078

Seq. No. 45489  
Gene No. 96183  
Start 17794  
Name OJ000301\_22.0330.C9.o2.ts  
Start 17794

Seq. ID OJ000301\_22.0330.C9  
Strand -  
End 18010  
Method TBLASTX:Soybean  
End 18010

GI	none	Score	197
Exons	17794..17913, 17795..18010		
Seq. No.	45489	Seq. ID	OJ000301_22.0330.C9
Gene No.	96184	Strand	
Start	18378	End	18820
Name	OJ000301_22.0330.C9.o1.tm	Method	TBLASTX:Maize
Start	18378	End	18820
GI	none	Score	334
Exons	18378..18818, 18382..18810, 18383..18820, 18384..18818		

Seq. No.	45489	Seq. ID	OJ000301_22.0330.C9
Gene No.	96185	Strand	
Start	19493	End	19852
Name	OJ000301_22.0330.C9.o6.tm	Method	TBLASTX:Maize
Start	19493	End	19852
GI	none	Score	78
Exons	19493..19609, 19592..19852, 19603..19749, 19611..19751, 19798..19827		

Seq. No.	45489	Seq. ID	OJ000301_22.0330.C9
Gene No.	96186	Strand	
Start	19991	End	20266
Name	OJ000301_22.0330.C9.o4.tm	Method	TBLASTX:Maize
Start	19991	End	20266
GI	none	Score	337
Exons	19991..20266, 19993..20265		

Seq. No.	45490	Seq. ID	OJ000301_22.0330.C10
Gene No.	96187	Strand	+
Start	9457	End	9743
Name	OJ000301_22.0330.C10.o1.gp	Method	AAT/GAP
Start	9457	End	9743
GI	uC-osroM202024h02a1	Score	559
Exons	9457..9743		
GI Descrip.	'6041757/gb AC011806.1 AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	45490	Seq. ID	OJ000301_22.0330.C10
Gene No.	96188	Strand	-
Start	4385	End	15478
Name	OJ000301_22.0330.C10.o2.gs	Method	GENSCAN
Start	4385	End	15478
GI	none	Score	.58
Exons	4385..4537, 5485..5594, 5915..6046, 6133..6339, 6539..6641, 9629..9808, 10115..10243, 10564..10714, 10820..10908, 11028..11130, 11207..11322, 11428..11523, 11698..11904, 11919..11993, 12066..12380, 12428..12673, 12767..12815, 13615..13807, 13855..14110, 14214..14308, 15403..15478		

Seq. No.	45490	Seq. ID	OJ000301_22.0330.C10
Gene No.	96188	Strand	-
Start	4385	End	15478
Name	OJ000301_22.0330.C10.o1.tm	Method	TBLASTX:Maize
Start	9646	End	11335
GI	none	Score	194

Exons 9646..9867, 9689..9862, 9738..9866, 9754..9867, 9755..9868,  
9935..10027, 9945..10058, 10110..10241, 10112..10243,  
10112..10243, 10319..10447, 10351..10449, 10352..10450,  
10567..10710, 10568..10717, 10569..10718, 10569..10718,  
10818..10910, 10819..10911, 10822..10917, 10827..10913,  
10983..11129, 11026..11130, 11029..11130, 11202..11318,  
11203..11319, 11203..11322, 11207..11335

Seq. No. 45490 Seq. ID OJ000301\_22.0330.C10  
Gene No. 96188 Strand -  
Start 4385 End 15478  
Name OJ000301\_22.0330.C10.o1.tc Method TBLASTX:Cress  
Start 9738 End 14017  
GI none Score 59  
Exons 9738..9866, 9739..9867, 9935..10027, 9983..10066, 10112..10246,  
10113..10241, 10337..10420, 10340..10420, 10359..10421,  
10576..10710, 10577..10717, 10852..10917, 11025..11129,  
11026..11130, 11203..11328, 11207..11260, 11422..11523,  
11459..11530, 11595..11999, 11602..11859, 11607..11999,  
12059..12313, 12065..12340, 12066..12344, 12067..12330,  
12359..12493, 12455..12613, 12564..12665, 12764..12811,  
12891..13001, 12981..13064, 13853..14017

Seq. No. 45490 Seq. ID OJ000301\_22.0330.C10  
Gene No. 96188 Strand -  
Start 4385 End 15478  
Name OJ000301\_22.0330.C10.o1.ts Method TBLASTX:Soybean  
Start 9756 End 13915  
GI none Score 62  
Exons 9756..9875, 9757..9867, 9935..10066, 9987..10058, 10112..10240,  
10113..10238, 10133..10240, 10319..10423, 10334..10423,  
10573..10710, 10574..10717, 11028..11129, 11056..11130,  
11197..11325, 11203..11328, 11422..11523, 11593..11784,  
11595..11852, 11607..11729, 11608..11850, 11887..11976,  
11892..11999, 11919..11999, 12012..12116, 12117..12356,  
12124..12339, 12138..12344, 12533..12613, 12749..12811,  
12891..12974, 12891..12974, 12990..13064, 13853..13915

Seq. No. 45490 Seq. ID OJ000301\_22.0330.C10  
Gene No. 96188 Strand -  
Start 4385 End 15478  
Name OJ000301\_22.0330.C10.o1.np Method AAT/NAP  
Start 9759 End 14203  
GI 7484893 Score 1885  
Exons 9759..9865, 9946..10024, 10115..10243, 10334..10472,  
10514..10722, 10852..10908, 11028..11130, 11207..11322,  
11428..11523, 11607..11993, 12066..12487, 12560..12673,  
12767..12815, 12892..13054, 13855..14014, 14109..14203  
GI Descrip. cytochrome b245 beta chain homolog RbohAp108 - Arabidopsis  
thaliana gi|2654868|gb|AAB87789.1| (AF015301) RbohAp108  
[Arabidopsis thaliana]

Seq. No. 45490 Seq. ID OJ000301\_22.0330.C10  
Gene No. 96188 Strand -  
Start 4385 End 15478  
Name OJ000301\_22.0330.C10.o2.gp Method AAT/GAP  
Start 10595 End 11729

GI 41501\_1.R1084 Score 1170  
 Exons 10595..10714, 10820..10908, 11028..11130, 11207..11322,  
 11428..11523, 11607..11729  
 GI Descrip. '2654868 8.0e-73 (AF015301) RbohAp108 [Arabidopsis thaliana]'

Seq. No. 45490 Seq. ID OJ000301\_22.0330.C10  
 Gene No. 96188 Strand -  
 Start 4385 End 15478  
 Name OJ000301\_22.0330.C10.o2.tw Method TBLASTX:Wheat  
 Start 11046 End 11523  
 GI none Score 80  
 Exons 11046..11129, 11047..11130, 11203..11328, 11207..11311,  
 11422..11523

Seq. No. 45490 Seq. ID OJ000301\_22.0330.C10  
 Gene No. 96188 Strand -  
 Start 4385 End 15478  
 Name OJ000301\_22.0330.C10.o2.tm Method TBLASTX:Maize  
 Start 11473 End 12104  
 GI none Score 42  
 Exons 11473..11523, 11474..11524, 11595..11891, 11602..11859,  
 11895..11999, 12066..12104

Seq. No. 45490 Seq. ID OJ000301\_22.0330.C10  
 Gene No. 96188 Strand -  
 Start 4385 End 15478  
 Name OJ000301\_22.0330.C10.o1.tw Method TBLASTX:Wheat  
 Start 11640 End 12120  
 GI none Score 406  
 Exons 11640..11999, 11643..11999, 12063..12119, 12064..12120

Seq. No. 45490 Seq. ID OJ000301\_22.0330.C10  
 Gene No. 96188 Strand -  
 Start 4385 End 15478  
 Name OJ000301\_22.0330.C10.o3.tm Method TBLASTX:Maize  
 Start 12117 End 12353  
 GI none Score 130  
 Exons 12117..12338, 12118..12339, 12138..12353

Seq. No. 45491 Seq. ID OJ000301\_22.0330.C11  
 Gene No. 96189 Strand +  
 Start 1954 End 2996  
 Name OJ000301\_22.0330.C11.o2.gp Method AAT/GAP  
 Start 1954 End 2430  
 GI none Score 706  
 Exons 1954..2298, 2401..2430

Seq. No. 45491 Seq. ID OJ000301\_22.0330.C11  
 Gene No. 96189 Strand +  
 Start 1954 End 2996  
 Name OJ000301\_22.0330.C11.o1.gs Method GENSCAN  
 Start 2206 End 2991  
 GI none Score .9  
 Exons 2206..2298, 2401..2615, 2718..2991

Seq. No. 45491 Seq. ID OJ000301\_22.0330.C11  
 Gene No. 96189 Strand +



Start	1954	End	2996
Name	OJ000301_22.0330.C11.o1.np	Method	AAT/NAP
Start	2206	End	2996
GI	7451948	Score	328
Exons	2206..2298, 2401..2615, 2718..2996		
GI Descrip.	hypothetical protein F6E21.50 - Arabidopsis thaliana gi 7270015 emb CAB79831.1 . (AL161578) putative protein [Arabidopsis thaliana]		

Seq. No.	45491	Seq. ID	OJ000301_22.0330.C11
Gene No.	96190	Strand	-
Start	3073	End	3421
Name	OJ000301_22.0330.C11.o1.tm	Method	TBLASTX:Maize
Start	2203	End	2928
GI	none	Score	77
Exons	2203..2310, 2398..2613, 2400..2561, 2722..2796, 2803..2928, 2820..2906		

Seq. No.	45491	Seq. ID	OJ000301_22.0330.C11
Gene No.	96190	Strand	-
Start	3073	End	3421
Name	OJ000301_22.0330.C11.o1.ts	Method	TBLASTX:Soybean
Start	2437	End	2931
GI	none	Score	114
Exons	2437..2616, 2740..2796, 2812..2931, 2814..2906		

Seq. No.	45491	Seq. ID	OJ000301_22.0330.C11
Gene No.	96190	Strand	-
Start	3073	End	3421
Name	OJ000301_22.0330.C11.o3.gp	Method	AAT/GAP
Start	3073	End	3421
GI	none	Score	694
Exons	3073..3421		

Seq. No.	45492	Seq. ID	OJ000301_22.0330.C12
Gene No.	96191	Strand	+
Start	2660	End	4312
Name	OJ000301_22.0330.C12.o1.np	Method	AAT/NAP
Start	2660	End	4312
GI	6907086	Score	1218
Exons	2660..3421, 3483..3717, 3943..4009, 4135..4312		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	45493	Seq. ID	OJ000301_22.0330.C13
Gene No.	96192	Strand	+
Start	1	End	9102
Name	OJ000301_22.0330.C13.o1.np	Method	AAT/NAP
Start	1	End	3564
GI	6815109	Score	179
Exons	1..40, 982..1213, 3544..3564		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	45493	Seq. ID	OJ000301_22.0330.C13
Gene No.	96192	Strand	+
Start	1	End	9102
Name	OJ000301_22.0330.C13.o2.np	Method	AAT/NAP
Start	460	End	2658

GI	5042454	Score	283
Exons	460..504, 1181..1413, 2269..2658		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		
Seq. No.	45493	Seq. ID	OJ000301_22.0330.C13
Gene No.	96192	Strand	+
Start	1	End	9102
Name	OJ000301_22.0330.C13.o1.gs	Method	GENSCAN
Start	1321	End	8881
GI	none	Score	.63
Exons	1321..1356, 1418..1634, 2385..2545, 4468..4586, 7192..7261, 7347..7838, 7935..8108, 8249..8362, 8855..8881		
Seq. No.	45493	Seq. ID	OJ000301_22.0330.C13
Gene No.	96192	Strand	+
Start	1	End	9102
Name	OJ000301_22.0330.C13.o5.np	Method	AAT/NAP
Start	6521	End	9102
GI	7329632	Score	784
Exons	6521..6562, 6593..6635, 7192..7838, 7935..8108, 8249..8362, 8510..8568, 8674..8740, 8855..8906, 9010..9102		
GI Descrip.	(AL132970) putative protein [Arabidopsis thaliana]		
Seq. No.	45493	Seq. ID	OJ000301_22.0330.C13
Gene No.	96193	Strand	-
Start	2658	End	6380
Name	OJ000301_22.0330.C13.o4.np	Method	AAT/NAP
Start	2658	End	6380
GI	6815109	Score	134
Exons	2658..2745, 4990..5207, 6346..6380		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		
Seq. No.	45493	Seq. ID	OJ000301_22.0330.C13
Gene No.	96193	Strand	-
Start	2658	End	6380
Name	OJ000301_22.0330.C13.o3.np	Method	AAT/NAP
Start	3583	End	4166
GI	7228450	Score	205
Exons	3583..3696, 3799..3918, 4056..4166		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		
Seq. No.	45493	Seq. ID	OJ000301_22.0330.C13
Gene No.	96194	Strand	
Start	8269	End	9130
Name	OJ000301_22.0330.C13.o1.tm	Method	TBLASTX:Maize
Start	8269	End	9130
GI	none	Score	96
Exons	8269..8361, 8270..8362, 8277..8363, 8495..8569, 8497..8568, 8678..8743, 8681..8836, 8852..8917, 8976..9095, 9009..9101, 9020..9130, 9026..9100		
Seq. No.	45493	Seq. ID	OJ000301_22.0330.C13
Gene No.	96194	Strand	
Start	8269	End	9130
Name	OJ000301_22.0330.C13.o1.ts	Method	TBLASTX:Soybean
Start	8495	End	8911
GI	none	Score	108

Exons 8495..8569, 8497..8568, 8656..8745, 8666..8743, 8852..8911, 8853..8882

Seq. No.	45494	Seq. ID	OJ000301_22.0330.C14
Gene No.	96195	Strand	+
Start	1	End	2436
Name	OJ000301_22.0330.C14.o1.np	Method	AAT/NAP
Start	1	End	2434
GI	7329632	Score	471
Exons	1..228, 462..508, 742..811, 1135..1215, 1292..1393, 1874..1988, 2334..2434		

GI Descrip. (AL132970) putative protein [Arabidopsis thaliana]

Seq. No.	45494	Seq. ID	OJ000301_22.0330.C14
Gene No.	96195	Strand	+
Start	1	End	2436
Name	OJ000301_22.0330.C14.o1.tm	Method	TBLASTX:Maize
Start	1	End	1181
GI	none	Score	35
Exons	1..21, 26..139, 28..144, 32..154, 142..234, 144..233, 447..509, 452..508, 734..814, 735..830, 739..813, 740..817, 1113..1181		

Seq. No.	45494	Seq. ID	OJ000301_22.0330.C14
Gene No.	96195	Strand	+
Start	1	End	2436
Name	OJ000301_22.0330.C14.o1.gs	Method	GENSCAN
Start	52	End	2434
GI	none	Score	.65
Exons	52..228, 447..508, 742..811, 1135..1215, 1292..1393, 1874..2010, 2317..2434		

Seq. No.	45494	Seq. ID	OJ000301_22.0330.C14
Gene No.	96195	Strand	+
Start	1	End	2436
Name	OJ000301_22.0330.C14.o2.tm	Method	TBLASTX:Maize
Start	1868	End	2436
GI	none	Score	177
Exons	1868..1987, 1870..1983, 1871..2002, 1970..2011, 2303..2434, 2314..2436, 2314..2436		

Seq. No.	45495	Seq. ID	OJ000301_22.0330.C15
Gene No.	96196	Strand	-
Start	1671	End	3432
Name	OJ000301_22.0330.C15.o1.gs	Method	GENSCAN
Start	1671	End	3432
GI	none	Score	.81
Exons	1671..2967, 3302..3432		

Seq. No.	45496	Seq. ID	OJ000301_22.0330.C16
Gene No.	96197	Strand	+
Start	718	End	1201
Name	OJ000301_22.0330.C16.o1.gs	Method	GENSCAN
Start	718	End	1201
GI	none	Score	.49
Exons	718..825, 1036..1201		

Seq. No.	45496	Seq. ID	OJ000301_22.0330.C16
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Gene No. 96198  
 Start 2079  
 Name OJ000301\_22.0330.C16.o2.gs  
 Start 2079  
 GI none  
 Exons 2079..3173

Strand -  
 End 3173  
 Method GENSCAN  
 End 3173  
 Score .99

Seq. No. 45497  
 Gene No. 96199  
 Start 3015  
 Name OJ000301\_22.0330.C17.o1.gs  
 Start 3015  
 GI none  
 Exons 3015..4283

Seq. ID OJ000301\_22.0330.C17  
 Strand -  
 End 4283  
 Method GENSCAN  
 End 4283  
 Score .96

Seq. No. 45498  
 Gene No. 96200  
 Start 1  
 Name OJ000301\_22.0330.C18.o1.np  
 Start 1  
 GI 5042438  
 Exons 1..40, 1539..1825  
 GI Descrip. (AC007789) hypothetical protein [Oryza sativa]

Seq. ID OJ000301\_22.0330.C18  
 Strand -  
 End 1825  
 Method AAT/NAP  
 End 1825  
 Score 94

Seq. No. 45498  
 Gene No. 96200  
 Start 1  
 Name OJ000301\_22.0330.C18.o1.gs  
 Start 226  
 GI none  
 Exons 226..256, 1210..1795

Seq. ID OJ000301\_22.0330.C18  
 Strand -  
 End 1825  
 Method GENSCAN  
 End 1795  
 Score .91

Seq. No. 45498  
 Gene No. 96200  
 Start 1  
 Name OJ000301\_22.0330.C18.o1.gp  
 Start 493  
 GI 3107447  
 Exons 493..617, 1210..1295

Seq. ID OJ000301\_22.0330.C18  
 Strand -  
 End 1825  
 Method AAT/GAP  
 End 1295  
 Score 369

Seq. No. 45498  
 Gene No. 96200  
 Start 1  
 Name OJ000301\_22.0330.C18.o2.gp  
 Start 1435  
 GI 2311181  
 Exons 1435..1825

Seq. ID OJ000301\_22.0330.C18  
 Strand -  
 End 1825  
 Method AAT/GAP  
 End 1825  
 Score 720

Seq. No. 45499  
 Gene No. 96201  
 Start 1  
 Name OJ000301\_22.0330.C19.o1.np  
 Start 1  
 GI 7488317  
 Exons 1..62, 1594..2150

Seq. ID OJ000301\_22.0330.C19  
 Strand +  
 End 6172  
 Method AAT/NAP  
 End 2150  
 Score 187

GI Descrip. RNA-directed DNA polymerase homolog F19F24.2 - Arabidopsis thaliana gi|4185148|gb|AAD08951.1| (AC005724) putative non-LTR

## retroelement reverse transcriptase [Arabidopsis thaliana]

Seq. No.	45499	Seq. ID	OJ000301_22.0330.C19
Gene No.	96201	Strand	+
Start	1	End	6172
Name	OJ000301_22.0330.C19.o1.gs	Method	GENSCAN
Start	73	End	6172
GI	none	Score	.56
Exons	73..306, 1007..1086, 1125..1174, 1218..1336, 1606..2217, 2528..2695, 2800..2886, 3244..3438, 3950..4155, 5571..5705, 5807..6172		

Seq. No.	45499	Seq. ID	OJ000301_22.0330.C19
Gene No.	96201	Strand	+
Start	1	End	6172
Name	OJ000301_22.0330.C19.o2.gp	Method	AAT/GAP
Start	1938	End	2366
GI	4879320	Score	768
Exons	1938..2366		

Seq. No.	45499	Seq. ID	OJ000301_22.0330.C19
Gene No.	96202	Strand	-
Start	15	End	375
Name	OJ000301_22.0330.C19.o1.gp	Method	AAT/GAP
Start	15	End	375
GI	LIB3474-002-P1-K1-C8	Score	691
Exons	15..375		
GI Descrip.	'287938/emb X54204 CVPRSET5C 6.0e-47 Cloning vector pRSET5c (pBluescript KS plus derivative)'		

Seq. No.	45499	Seq. ID	OJ000301_22.0330.C19
Gene No.	96203	Strand	
Start	1650	End	2047
Name	OJ000301_22.0330.C19.o1.tm	Method	TBLASTX:Maize
Start	1650	End	2047
GI	none	Score	222
Exons	1650..2003, 2009..2047		

Seq. No.	45500	Seq. ID	OJ000301_22.0330.C20
Gene No.	96204	Strand	+
Start	367	End	5802
Name	OJ000301_22.0330.C20.o1.gs	Method	GENSCAN
Start	367	End	5768
GI	none	Score	.63
Exons	367..698, 1552..1727, 2637..2911, 2954..3697, 4113..4643, 4784..5768		

Seq. No.	45500	Seq. ID	OJ000301_22.0330.C20
Gene No.	96204	Strand	+
Start	367	End	5802
Name	OJ000301_22.0330.C20.o1.tm	Method	TBLASTX:Maize
Start	472	End	3709
GI	none	Score	372
Exons	472..684, 3131..3709, 3271..3441, 3499..3708		

Seq. No.	45500	Seq. ID	OJ000301_22.0330.C20
Gene No.	96204	Strand	+

Start	367	End	5802
Name	OJ000301_22.0330.C20.o4.tw	Method	TBLASTX:Wheat
Start	472	End	3715
GI	none	Score	99
Exons	472..684, 3317..3457, 3506..3715		

Seq. No.	45500	Seq. ID	OJ000301_22.0330.C20
Gene No.	96204	Strand	+
Start	367	End	5802
Name	OJ000301_22.0330.C20.o1.np	Method	AAT/NAP
Start	2359	End	5802
GI	4512618	Score	672
Exons	2359..2383, 4258..4643, 4701..5802		
GI Descrip.	(AC004793) Strong similarity to gi 3600044 T12H20.12 protease homolog from Arabidopsis thaliana BAC gb AF080119 and is a member of the reverse transcriptase family PF 00078.		

Seq. No.	45500	Seq. ID	OJ000301_22.0330.C20
Gene No.	96204	Strand	+
Start	367	End	5802
Name	OJ000301_22.0330.C20.o3.tw	Method	TBLASTX:Wheat
Start	2405	End	2767
GI	none	Score	134
Exons	2405..2623, 2609..2767, 2674..2766		

Seq. No.	45500	Seq. ID	OJ000301_22.0330.C20
Gene No.	96204	Strand	+
Start	367	End	5802
Name	OJ000301_22.0330.C20.o3.tm	Method	TBLASTX:Maize
Start	2450	End	2842
GI	none	Score	260
Exons	2450..2842		

Seq. No.	45500	Seq. ID	OJ000301_22.0330.C20
Gene No.	96204	Strand	+
Start	367	End	5802
Name	OJ000301_22.0330.C20.o2.tw	Method	TBLASTX:Wheat
Start	2930	End	3310
GI	none	Score	238
Exons	2930..3310, 2968..3309		

Seq. No.	45500	Seq. ID	OJ000301_22.0330.C20
Gene No.	96204	Strand	+
Start	367	End	5802
Name	OJ000301_22.0330.C20.o5.tw	Method	TBLASTX:Wheat
Start	4278	End	4580
GI	none	Score	67
Exons	4278..4337, 4425..4580		

Seq. No.	45500	Seq. ID	OJ000301_22.0330.C20
Gene No.	96204	Strand	+
Start	367	End	5802
Name	OJ000301_22.0330.C20.o4.tm	Method	TBLASTX:Maize
Start	4718	End	4885
GI	none	Score	216
Exons	4718..4885, 4724..4864, 4726..4878		

Seq. No.	45500	Seq. ID	OJ000301_22.0330.C20
Gene No.	96204	Strand	+
Start	367	End	5802
Name	OJ000301_22.0330.C20.o2.tc	Method	TBLASTX:Cress
Start	4727	End	5014
GI	none	Score	43
Exons	4727..4780, 4820..5014, 4837..5013		

Seq. No.	45500	Seq. ID	OJ000301_22.0330.C20
Gene No.	96204	Strand	+
Start	367	End	5802
Name	OJ000301_22.0330.C20.o1.tw	Method	TBLASTX:Wheat
Start	4879	End	5512
GI	none	Score	316
Exons	4879..5016, 4880..5344, 5083..5244, 5417..5512		

Seq. No.	45500	Seq. ID	OJ000301_22.0330.C20
Gene No.	96204	Strand	+
Start	367	End	5802
Name	OJ000301_22.0330.C20.o2.tm	Method	TBLASTX:Maize
Start	4940	End	5572
GI	none	Score	76
Exons	4940..5005, 5006..5572, 5149..5322		

Seq. No.	45500	Seq. ID	OJ000301_22.0330.C20
Gene No.	96204	Strand	+
Start	367	End	5802
Name	OJ000301_22.0330.C20.o1.ts	Method	TBLASTX:Soybean
Start	5114	End	5575
GI	none	Score	295
Exons	5114..5575, 5194..5319, 5395..5514		

Seq. No.	45500	Seq. ID	OJ000301_22.0330.C20
Gene No.	96204	Strand	+
Start	367	End	5802
Name	OJ000301_22.0330.C20.o1.tc	Method	TBLASTX:Cress
Start	5132	End	5575
GI	none	Score	273
Exons	5132..5575, 5137..5307, 5395..5565		

Seq. No.	45501	Seq. ID	OJ000301_22.0330.C21
Gene No.	96205	Strand	+
Start	1	End	744
Name	OJ000301_22.0330.C21.o1.np	Method	AAT/NAP
Start	1	End	744
GI	7444418	Score	591
Exons	1..744		

GI Descrip. hypothetical protein T20D16.4 - Arabidopsis thaliana  
gi|2642431|gb|AAB87099.1| (AC002391) putative retroelement pol  
polyprotein [Arabidopsis thaliana]

Seq. No.	45501	Seq. ID	OJ000301_22.0330.C21
Gene No.	96205	Strand	+
Start	1	End	744
Name	OJ000301_22.0330.C21.o1.ts	Method	TBLASTX:Soybean
Start	61	End	513
GI	5509260	Score	292

Exons 61..420, 153..269, 339..419, 427..513  
 GI Descrip. -

Seq. No.	45501	Seq. ID	OJ000301_22.0330.C21
Gene No.	96205	Strand	+
Start	1	End	744
Name	OJ000301_22.0330.C21.o1.gs	Method	GENSCAN
Start	67	End	658
GI	none	Score	.72
Exons	67..658		

Seq. No.	45501	Seq. ID	OJ000301_22.0330.C21
Gene No.	96205	Strand	+
Start	1	End	744
Name	OJ000301_22.0330.C21.o1.tc	Method	TBLASTX:Cress
Start	142	End	402
GI	none	Score	283
Exons	142..402, 147..269		

Seq. No.	45501	Seq. ID	OJ000301_22.0330.C21
Gene No.	96205	Strand	+
Start	1	End	744
Name	OJ000301_22.0330.C21.o1.tm	Method	TBLASTX:Maize
Start	181	End	609
GI	none	Score	214
Exons	181..408, 183..269, 339..410, 427..609, 454..483		

Seq. No.	45501	Seq. ID	OJ000301_22.0330.C21
Gene No.	96205	Strand	+
Start	1	End	744
Name	OJ000301_22.0330.C21.o1.tw	Method	TBLASTX:Wheat
Start	181	End	717
GI	none	Score	234
Exons	181..426, 201..269, 327..425, 430..522, 517..717		

Seq. No.	45502	Seq. ID	OJ000301_28.0330.C1
Gene No.	96206	Strand	-
Start	756	End	983
Name	OJ000301_28.0330.C1.o1.gs	Method	GENSCAN
Start	756	End	983
GI	none	Score	.97
Exons	756..983		

Seq. No.	45503	Seq. ID	OJ000301_28.0330.C2
Gene No.	96207	Strand	+
Start	2461	End	5635
Name	OJ000301_28.0330.C2.o1.np	Method	AAT/NAP
Start	2461	End	5635
GI	6759434	Score	1415
Exons	2461..2520, 3728..5635		
GI Descrip.	(AL137189) putative protein [Arabidopsis thaliana]		

Seq. No.	45503	Seq. ID	OJ000301_28.0330.C2
Gene No.	96208	Strand	+
Start	8014	End	17095
Name	OJ000301_28.0330.C2.o2.np	Method	AAT/NAP
Start	8014	End	17095



GI 6678403 Score 1072  
 Exons 8014..8387, 9561..9739, 9968..10040, 10316..10438, 10520..10641, 10715..10787, 10897..11013, 11136..11219, 11859..12011, 12139..12285, 13123..13197, 13547..13636, 13744..13848, 15458..15492, 15570..15796, 15998..16062, 16173..16211, 16382..16460, 16581..16652, 16811..16852, 17061..17095  
 GI Descrip. topoisomerase 3 alpha gi|6686029|sp|O70157|TP3A\_MOUSE DNA TOPOISOMERASE III ALPHA gi|3061308|dbj|BAA25662| (AB006074) topoisomerase III [Mus musculus]

Seq. No. 45503 Seq. ID OJ000301\_28.0330.C2  
 Gene No. 96209 Strand -  
 Start 6976 End 7371  
 Name OJ000301\_28.0330.C2.ol.gp Method AAT/GAP  
 Start 6976 End 7371  
 GI none Score 784  
 Exons 6976..7371

Seq. No. 45503 Seq. ID OJ000301\_28.0330.C2  
 Gene No. 96210 Strand -  
 Start 15100 End 17095  
 Name OJ000301\_28.0330.C2.ol.ts Method TBLASTX:Soybean  
 Start 4115 End 5623  
 GI none Score 188  
 Exons 4115..4579, 4136..4900, 4142..5005, 4195..4500, 4213..4578, 4255..4680, 4274..4411, 4349..4723, 4354..4533, 4429..4890, 4451..5320, 4655..5122, 4655..4801, 4676..5530, 4700..4867, 4771..5004, 4781..5623, 4813..4926, 4868..5623, 4898..5026, 4985..5437, 4987..5340, 5096..5224, 5120..5287, 5134..5286, 5149..5565, 5218..5391, 5219..5404, 5299..5622, 5380..5565, 5387..5590, 5387..5542, 5404..5529

Seq. No. 45503 Seq. ID OJ000301\_28.0330.C2  
 Gene No. 96210 Strand -  
 Start 15100 End 17095  
 Name OJ000301\_28.0330.C2.ol.tc Method TBLASTX:Cress  
 Start 4121 End 5623  
 GI none Score 79  
 Exons 4121..4315, 4154..4504, 4154..4408, 4184..4435, 4241..4600, 4255..4527, 4295..4540, 4312..4506, 4343..4714, 4414..4515, 4418..4630, 4460..4816, 4502..4738, 4559..4924, 4564..4920, 4570..4821, 4607..4843, 4675..4929, 4676..5026, 4712..4960, 4739..4867, 4780..5076, 4781..5125, 4841..5035, 4871..5248, 4910..5131, 4943..5164, 4973..5344, 4990..5127, 5041..5274, 5042..5266, 5084..5449, 5152..5340, 5170..5382, 5177..5380, 5182..5508, 5183..5551, 5267..5473, 5275..5616, 5279..5614, 5366..5590, 5368..5550, 5396..5623

Seq. No. 45503 Seq. ID OJ000301\_28.0330.C2  
 Gene No. 96210 Strand -  
 Start 15100 End 17095  
 Name OJ000301\_28.0330.C2.ol.tm Method TBLASTX:Maize  
 Start 4163 End 5623  
 GI none Score 127  
 Exons 4163..4381, 4256..4483, 4285..4533, 4286..4591, 4421..4693, 4423..4635, 4526..4801, 4651..4848, 4652..4903, 4718..5011, 4733..5011, 4828..5118, 4859..5116, 4946..5221, 5069..5326,

5123..5221, 5155..5382, 5156..5431, 5306..5533, 5410..5583,  
5410..5436, 5411..5623

Seq. No.	45503	Seq. ID	OJ000301_28.0330.C2
Gene No.	96210	Strand	-
Start	15100	End	17095
Name	OJ000301_28.0330.C2.o2.tm	Method	TBLASTX:Maize
Start	8096	End	8393
GI	none	Score	109
Exons	8096..8158, 8097..8168, 8213..8386, 8214..8387, 8214..8393		

Seq. No.	45503	Seq. ID	OJ000301_28.0330.C2
Gene No.	96210	Strand	-
Start	15100	End	17095
Name	OJ000301_28.0330.C2.o3.tm	Method	TBLASTX:Maize
Start	11859	End	12236
GI	none	Score	281
Exons	11859..12035, 11861..12025, 11862..12035, 11863..12036, 12157..12234, 12158..12205, 12159..12236, 12159..12236		

Seq. No.	45503	Seq. ID	OJ000301_28.0330.C2
Gene No.	96210	Strand	-
Start	15100	End	17095
Name	OJ000301_28.0330.C2.o4.tm	Method	TBLASTX:Maize
Start	13559	End	15496
GI	none	Score	118
Exons	13559..13636, 13559..13636, 13560..13640, 13741..13848, 13745..13846, 15458..15493, 15461..15496, 15462..15494		

Seq. No.	45503	Seq. ID	OJ000301_28.0330.C2
Gene No.	96210	Strand	-
Start	15100	End	17095
Name	OJ000301_28.0330.C2.o3.np	Method	AAT/NAP
Start	15100	End	17095
GI	6069646	Score	68
Exons	15100..15275, 17036..17095		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	45503	Seq. ID	OJ000301_28.0330.C2
Gene No.	96210	Strand	-
Start	15100	End	17095
Name	OJ000301_28.0330.C2.o5.tm	Method	TBLASTX:Maize
Start	15568	End	16654
GI	none	Score	173
Exons	15568..15699, 15569..15697, 15570..15704, 15571..15699, 15798..15902, 15834..15893, 15841..15903, 15955..16017, 15963..16016, 16379..16459, 16384..16461, 16385..16462, 16578..16649, 16579..16653, 16580..16654		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96211	Strand	+
Start	103	End	1858
Name	OJ000301_28.0330.C3.o1.gs	Method	GENSCAN

Start	103	End	1858
GI	none	Score	.6
Exons	103..267, 391..561, 1160..1185, 1820..1858		
Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96212	Strand	+
Start	5188	End	7541
Name	OJ000301_28.0330.C3.o3.gs	Method	GENSCAN
Start	5188	End	7541
GI	none	Score	.55
Exons	5188..5533, 5627..6202, 6279..6571, 6636..7541		
Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96212	Strand	+
Start	5188	End	7541
Name	OJ000301_28.0330.C3.o1.np	Method	AAT/NAP
Start	6685	End	7421
GI	2880046	Score	286
Exons	6685..7008, 7270..7421		
GI Descrip.	(AC002340) unknown protein [Arabidopsis thaliana]		
Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96213	Strand	+
Start	8699	End	9109
Name	OJ000301_28.0330.C3.o1.gp	Method	AAT/GAP
Start	8699	End	9109
GI	none	Score	814
Exons	8699..9109		
Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96214	Strand	+
Start	11061	End	13756
Name	OJ000301_28.0330.C3.o5.gs	Method	GENSCAN
Start	11061	End	13756
GI	none	Score	.76
Exons	11061..11122, 11128..11239, 11308..11498, 11805..12632, 12845..12985, 13009..13295, 13306..13448, 13658..13756		
Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96215	Strand	+
Start	14066	End	14323
Name	OJ000301_28.0330.C3.o6.gs	Method	GENSCAN
Start	14066	End	14323
GI	none	Score	.57
Exons	14066..14323		
Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96216	Strand	+
Start	16074	End	22525
Name	OJ000301_28.0330.C3.o7.gs	Method	GENSCAN
Start	16074	End	22411
GI	none	Score	.67
Exons	16074..16163, 16657..16678, 16967..17123, 17310..18809, 19039..19346, 19752..19881, 20302..20499, 20555..20585, 20997..21170, 21742..21861, 21932..22102, 22175..22411		
Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3

Gene No.	96216	Strand	+
Start	16074	End	22525
Name	OJ000301_28.0330.C3.o3.np	Method	AAT/NAP
Start	17348	End	20488
GI	7485859	Score	751
Exons	17348..19094, 20388..20488		
GI Descrip.	hypothetical protein F20D10.300 - Arabidopsis thaliana gi 4467124 emb CAB37558.1  (AL035538) hypothetical protein [Arabidopsis thaliana] gi 7270802 emb CAB80483.1  (AL161593) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96216	Strand	+
Start	16074	End	22525
Name	OJ000301_28.0330.C3.o3.gp	Method	AAT/GAP
Start	21717	End	22525
GI	57687_1.R1084	Score	1133
Exons	21717..21861, 21932..22102, 22175..22525		
GI Descrip.	'2961390/emb CAA18137  2.0e-18 (AL022141) beta-galactosidase like protein [Arabidopsis thaliana]'		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96217	Strand	+
Start	23263	End	27343
Name	OJ000301_28.0330.C3.o8.gs	Method	GENSCAN
Start	23263	End	27343
GI	none	Score	.78
Exons	23263..23841, 23919..24071, 24146..24475, 24572..24706, 25032..25337, 25516..25719, 25779..25916, 25990..26114, 26184..26262, 26356..26478, 26771..27343		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96218	Strand	+
Start	27804	End	28073
Name	OJ000301_28.0330.C3.o9.gs	Method	GENSCAN
Start	27804	End	28073
GI	none	Score	.94
Exons	27804..28073		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96219	Strand	+
Start	31953	End	32312
Name	OJ000301_28.0330.C3.o11.gs	Method	GENSCAN
Start	31953	End	32312
GI	none	Score	.97
Exons	31953..32120, 32259..32312		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96220	Strand	+
Start	35511	End	35768
Name	OJ000301_28.0330.C3.o12.gs	Method	GENSCAN
Start	35511	End	35768
GI	none	Score	.57
Exons	35511..35768		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96221	Strand	+

Start	37145	End	38241
Name	OJ000301_28.0330.C3.o13.gs	Method	GENSCAN
Start	37145	End	38241
GI	none	Score	.71
Exons	37145..37286, 37818..38019, 38064..38241		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96222	Strand	+
Start	39605	End	40523
Name	OJ000301_28.0330.C3.o14.gs	Method	GENSCAN
Start	39605	End	40523
GI	none	Score	.69
Exons	39605..39651, 39767..39833, 40455..40523		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96223	Strand	+
Start	41116	End	42716
Name	OJ000301_28.0330.C3.o15.gs	Method	GENSCAN
Start	41116	End	42716
GI	none	Score	.77
Exons	41116..41250, 42606..42716		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96224	Strand	+
Start	43587	End	43841
Name	OJ000301_28.0330.C3.o16.gs	Method	GENSCAN
Start	43587	End	43841
GI	none	Score	.75
Exons	43587..43841		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96225	Strand	+
Start	45055	End	51075
Name	OJ000301_28.0330.C3.o5.np	Method	AAT/NAP
Start	45055	End	46845
GI	226691	Score	58
Exons	45055..45080, 46752..46845		
GI Descrip.	RNA polymerase beta'-2 [Oryza sativa]		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96225	Strand	+
Start	45055	End	51075
Name	OJ000301_28.0330.C3.o17.gs	Method	GENSCAN
Start	45834	End	51075
GI	none	Score	.82
Exons	45834..46013, 50275..50504, 50955..51075		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96226	Strand	-
Start	2057	End	3060
Name	OJ000301_28.0330.C3.o2.gs	Method	GENSCAN
Start	2057	End	3060
GI	none	Score	.45
Exons	2057..2064, 2837..3009, 3029..3060		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96227	Strand	-

Start	6920	End	32003
Name	OJ000301_28.0330.C3.o4.np		Method AAT/NAP
Start	6920	End	32003
GI	7297596	Score	28
Exons	6920..7167, 10684..10746, 11300..11399, 31927..32003		
GI Descrip.	(AE003627) CG13131 gene product [Drosophila melanogaster]		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96227	Strand	-
Start	6920	End	32003
Name	OJ000301_28.0330.C3.o4.gs	Method	GENSCAN
Start	9007	End	10746
GI	none	Score	.99
Exons	9007..9393, 9472..9624, 9965..10256, 10391..10746		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96227	Strand	-
Start	6920	End	32003
Name	OJ000301_28.0330.C3.o2.gp	Method	AAT/GAP
Start	9335	End	10439
GI	none	Score	1003
Exons	9335..9393, 9472..9624, 9965..10256, 10391..10439		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96227	Strand	-
Start	6920	End	32003
Name	OJ000301_28.0330.C3.o2.np	Method	AAT/NAP
Start	9919	End	11516
GI	7523706	Score	698
Exons	9919..10256, 10391..10638, 11120..11516		
GI Descrip.	(AC011001) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96227	Strand	-
Start	6920	End	32003
Name	OJ000301_28.0330.C3.o4.gp	Method	AAT/GAP
Start	25943	End	26280
GI	4716416	Score	559
Exons	25943..26280		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96227	Strand	-
Start	6920	End	32003
Name	OJ000301_28.0330.C3.o10.gs	Method	GENSCAN
Start	29017	End	31330
GI	none	Score	.64
Exons	29017..29264, 30246..30458, 31324..31330		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96228	Strand	-
Start	46225	End	48922
Name	OJ000301_28.0330.C3.o6.np	Method	AAT/NAP
Start	46225	End	48922
GI	7340860	Score	86
Exons	46225..46321, 47650..47757, 48767..48922		
GI Descrip.	(AP001551) EST D24084(R1183) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96229	Strand	-
Start	51639	End	51917
Name	OJ000301_28.0330.C3.o5.tm	Method	TBLASTX:Maize
Start	99	End	491
GI	none	Score	143
Exons	99..266, 120..266, 214..270, 380..490, 381..491		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96229	Strand	-
Start	51639	End	51917
Name	OJ000301_28.0330.C3.o3.tm	Method	TBLASTX:Maize
Start	5174	End	5637
GI	none	Score	109
Exons	5174..5392, 5178..5393, 5178..5393, 5188..5394, 5218..5394, 5398..5556, 5566..5637		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96229	Strand	-
Start	51639	End	51917
Name	OJ000301_28.0330.C3.o1.tm	Method	TBLASTX:Maize
Start	6280	End	7526
GI	none	Score	51
Exons	6280..6327, 6281..6331, 6353..6478, 6401..6463, 6478..6636, 6479..6574, 6525..6641, 6633..6701, 6683..6892, 6702..7013, 6702..6923, 6718..7161, 6838..7011, 7074..7178, 7083..7172, 7174..7245, 7337..7504, 7338..7526		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96229	Strand	-
Start	51639	End	51917
Name	OJ000301_28.0330.C3.o3.ts	Method	TBLASTX:Soybean
Start	6675	End	7010
GI	none	Score	262
Exons	6675..7007, 6678..7010		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96229	Strand	-
Start	51639	End	51917
Name	OJ000301_28.0330.C3.o1.tc	Method	TBLASTX:Cress
Start	6702	End	7508
GI	none	Score	236
Exons	6702..7034, 6726..6926, 7323..7508, 7382..7507		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96229	Strand	-
Start	51639	End	51917
Name	OJ000301_28.0330.C3.o2.tm	Method	TBLASTX:Maize
Start	9076	End	9632
GI	none	Score	285
Exons	9076..9396, 9079..9393, 9469..9621, 9473..9625, 9485..9631, 9540..9632		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96229	Strand	-
Start	51639	End	51917

Name	OJ000301_28.0330.C3.o2.ts	Method	TBLASTX:Soybean
Start	9166	End	10066
GI	none	Score	136
Exons	9166..9210, 9211..9393, 9223..9396, 9469..9627, 9470..9625, 9951..10064, 9965..10066		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96229	Strand	-
Start	51639	End	51917
Name	OJ000301_28.0330.C3.o6.tm	Method	TBLASTX:Maize
Start	9975	End	10142
GI	none	Score	221
Exons	9975..10142, 9977..10141		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96229	Strand	-
Start	51639	End	51917
Name	OJ000301_28.0330.C3.o4.ts	Method	TBLASTX:Soybean
Start	10067	End	10563
GI	none	Score	133
Exons	10067..10264, 10068..10259, 10382..10447, 10393..10446, 10471..10560, 10471..10563		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96229	Strand	-
Start	51639	End	51917
Name	OJ000301_28.0330.C3.o8.tm	Method	TBLASTX:Maize
Start	10563	End	11245
GI	none	Score	106
Exons	10563..10640, 10563..10640, 10564..10677, 11117..11242, 11120..11245		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96229	Strand	-
Start	51639	End	51917
Name	OJ000301_28.0330.C3.o2.tc	Method	TBLASTX:Cress
Start	17881	End	18240
GI	none	Score	204
Exons	17881..18240		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96229	Strand	-
Start	51639	End	51917
Name	OJ000301_28.0330.C3.o4.tm	Method	TBLASTX:Maize
Start	17920	End	18294
GI	none	Score	271
Exons	17920..18294, 18045..18287		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96229	Strand	-
Start	51639	End	51917
Name	OJ000301_28.0330.C3.o1.ts	Method	TBLASTX:Soybean
Start	17967	End	18291
GI	none	Score	107
Exons	17967..18128, 17968..18291, 18045..18287		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
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Gene No.	96229	Strand	-
Start	51639	End	51917
Name	OJ000301_28.0330.C3.o18.gs	Method	GENSCAN
Start	51639	End	51840
GI	none	Score	.55
Exons	51639..51840		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96229	Strand	-
Start	51639	End	51917
Name	OJ000301_28.0330.C3.o7.np	Method	AAT/NAP
Start	51642	End	51917
GI	7487007	Score	196
Exons	51642..51917		
GI Descrip.	hypothetical protein T14P8.16 - Arabidopsis thaliana gi 3193284 gb AAC19268.1  (AF069298) T14P8.16 gene product [Arabidopsis thaliana] gi 7268995 emb CAB80728.1  (AL161494) AT4g02350 [Arabidopsis thaliana]		

Seq. No.	45504	Seq. ID	OJ000301_28.0330.C3
Gene No.	96229	Strand	-
Start	51639	End	51917
Name	OJ000301_28.0330.C3.o7.tm	Method	TBLASTX:Maize
Start	51750	End	51916
GI	none	Score	74
Exons	51750..51866, 51750..51863, 51754..51906, 51867..51911, 51869..51916		

Seq. No.	45505	Seq. ID	OJ000301_28.0330.C4
Gene No.	96230	Strand	-
Start	1	End	3132
Name	OJ000301_28.0330.C4.o1.np	Method	AAT/NAP
Start	1	End	1994
GI	7487007	Score	1375
Exons	1..754, 803..1001, 1053..1994		
GI Descrip.	hypothetical protein T14P8.16 - Arabidopsis thaliana gi 3193284 gb AAC19268.1  (AF069298) T14P8.16 gene product [Arabidopsis thaliana] gi 7268995 emb CAB80728.1  (AL161494) AT4g02350 [Arabidopsis thaliana]		

Seq. No.	45505	Seq. ID	OJ000301_28.0330.C4
Gene No.	96230	Strand	-
Start	1	End	3132
Name	OJ000301_28.0330.C4.o1.gs	Method	GENSCAN
Start	29	End	1970
GI	none	Score	.69
Exons	29..1970		

Seq. No.	45505	Seq. ID	OJ000301_28.0330.C4
Gene No.	96230	Strand	-
Start	1	End	3132
Name	OJ000301_28.0330.C4.o1.gp	Method	AAT/GAP
Start	1729	End	3132
GI	uC-osf1M202039b10b1	Score	922
Exons	1729..1977, 2898..3132		
GI Descrip.	'3193284 8.0e-13 (AF069298) No definition line found [Arabidopsis thaliana]'		

Seq. No.	45505	Seq. ID	OJ000301_28.0330.C4
Gene No.	96231	Strand	-
Start	5329	End	5847
Name	OJ000301_28.0330.C4.o2.gp	Method	AAT/GAP
Start	5329	End	5847
GI	uC-osrocyp036c05a1	Score	1003
Exons	5329..5847		
GI Descrip.	'3130064/emb CAA06835  2.0e-81 (AJ006055) glutathione reductase [Zea mays]'		

Seq. No.	45505	Seq. ID	OJ000301_28.0330.C4
Gene No.	96232	Strand	-
Start	7377	End	11262
Name	OJ000301_28.0330.C4.o6.tm	Method	TBLASTX:Maize
Start	1	End	398
GI	none	Score	141
Exons	1..195, 6..248, 279..398, 292..390		

Seq. No.	45505	Seq. ID	OJ000301_28.0330.C4
Gene No.	96232	Strand	-
Start	7377	End	11262
Name	OJ000301_28.0330.C4.o2.ts	Method	TBLASTX:Soybean
Start	6	End	810
GI	none	Score	114
Exons	6..257, 40..204, 66..239, 231..680, 279..677, 681..809, 685..810		

Seq. No.	45505	Seq. ID	OJ000301_28.0330.C4
Gene No.	96232	Strand	-
Start	7377	End	11262
Name	OJ000301_28.0330.C4.o2.tm	Method	TBLASTX:Maize
Start	532	End	1050
GI	none	Score	159
Exons	532..753, 534..1049, 543..1040, 793..1050		

Seq. No.	45505	Seq. ID	OJ000301_28.0330.C4
Gene No.	96232	Strand	-
Start	7377	End	11262
Name	OJ000301_28.0330.C4.o2.tc	Method	TBLASTX:Cress
Start	576	End	1062
GI	none	Score	191
Exons	576..1061, 618..1004, 790..1062		

Seq. No.	45505	Seq. ID	OJ000301_28.0330.C4
Gene No.	96232	Strand	-
Start	7377	End	11262
Name	OJ000301_28.0330.C4.o4.tm	Method	TBLASTX:Maize
Start	1051	End	1419
GI	none	Score	134
Exons	1051..1158, 1051..1407, 1052..1411, 1053..1412, 1053..1415, 1264..1419		

Seq. No.	45505	Seq. ID	OJ000301_28.0330.C4
Gene No.	96232	Strand	-
Start	7377	End	11262
Name	OJ000301_28.0330.C4.o5.tm	Method	TBLASTX:Maize
Start	1527	End	1983

GI	none	Score	87
Exons	1527..1898, 1528..1665, 1549..1917, 1568..1918, 1924..1983		

Seq. No.	45505	Seq. ID	OJ000301_28.0330.C4
Gene No.	96232	Strand	-
Start	7377	End	11262
Name	OJ000301_28.0330.C4.o3.ts	Method	TBLASTX:Soybean
Start	1545	End	1896
GI	none	Score	72
Exons	1545..1895, 1653..1871, 1816..1896		

Seq. No.	45505	Seq. ID	OJ000301_28.0330.C4
Gene No.	96232	Strand	-
Start	7377	End	11262
Name	OJ000301_28.0330.C4.o3.tc	Method	TBLASTX:Cress
Start	1581	End	1895
GI	none	Score	68
Exons	1581..1895, 1740..1883		

Seq. No.	45505	Seq. ID	OJ000301_28.0330.C4
Gene No.	96232	Strand	-
Start	7377	End	11262
Name	OJ000301_28.0330.C4.o3.gs	Method	GENSCAN
Start	7377	End	11170
GI	none	Score	81
Exons	7377..7412, 7533..7670, 7752..7922, 7995..8058, 8638..8786, 8886..8939, 9042..9218, 9310..9588, 9695..9920, 10797..11170		

Seq. No.	45505	Seq. ID	OJ000301_28.0330.C4
Gene No.	96232	Strand	-
Start	7377	End	11262
Name	OJ000301_28.0330.C4.o3.tm	Method	TBLASTX:Maize
Start	7377	End	9078
GI	none	Score	35
Exons	7377..7424, 7391..7420, 7522..7671, 7527..7673, 7531..7674, 7740..7883, 7750..7926, 7752..7946, 7753..7938, 7995..8060, 7996..8061, 8000..8065, 8637..8786, 8638..8787, 8638..8796, 8877..8942, 8884..8940, 9042..9077, 9043..9078		

Seq. No.	45505	Seq. ID	OJ000301_28.0330.C4
Gene No.	96232	Strand	-
Start	7377	End	11262
Name	OJ000301_28.0330.C4.o2.np	Method	AAT/NAP
Start	7494	End	11203
GI	2425107	Score	1820
Exons	7494..7670, 7752..7922, 7995..8058, 8638..8786, 8886..8939, 9042..9218, 9310..9588, 9695..9920, 10797..11203		
GI Descrip.	(AF019907) glutathione reductase (NADPH) [Vitis vinifera]		

Seq. No.	45505	Seq. ID	OJ000301_28.0330.C4
Gene No.	96232	Strand	-
Start	7377	End	11262
Name	OJ000301_28.0330.C4.o1.ts	Method	TBLASTX:Soybean
Start	7533	End	10945
GI	none	Score	123
Exons	7533..7673, 7546..7674, 7740..7895, 7747..7911, 7752..7946, 7759..7938, 7987..8061, 7993..8058, 7995..8063, 7995..8060,		

8631..8786, 8632..8787, 8640..8789, 8668..8787, 8905..8940,  
 9042..9239, 9042..9227, 9046..9240, 9062..9241, 9068..9241,  
 9270..9497, 9279..9482, 9286..9591, 9287..9589, 9691..9903,  
 9692..9919, 9692..9919, 9696..9923, 10820..10873, 10880..10945,  
 10884..10937

Seq. No.	45505	Seq. ID	OJ000301_28.0330.C4
Gene No.	96232	Strand	-
Start	7377	End	11262
Name	OJ000301_28.0330.C4.o1.tc	Method	TBLASTX:Cress
Start	7536	End	10981
GI	none	Score	124
Exons	7536..7673, 7549..7671, 7752..7925, 7756..7938, 7993..8058, 7995..8060, 7996..8061, 8631..8786, 8632..8787, 8661..8789, 8914..8949, 9037..9216, 9038..9217, 9042..9227, 9043..9228, 9286..9591, 9287..9583, 9691..9903, 9692..9919, 9693..9923, 10788..10907, 10803..10970, 10820..10882, 10859..10981		

Seq. No.	45505	Seq. ID	OJ000301_28.0330.C4
Gene No.	96232	Strand	-
Start	7377	End	11262
Name	OJ000301_28.0330.C4.o1.tw	Method	TBLASTX:Wheat
Start	7554	End	7916
GI	none	Score	92
Exons	7554..7673, 7555..7674, 7743..7892, 7752..7916, 7756..7893		

Seq. No.	45505	Seq. ID	OJ000301_28.0330.C4
Gene No.	96232	Strand	-
Start	7377	End	11262
Name	OJ000301_28.0330.C4.o3.gp	Method	AAT/GAP
Start	7826	End	9229
GI	2798701	Score	916
Exons	7826..7922, 7995..8058, 8638..8786, 8886..8939, 9042..9229		
GI Descrip.	3130064/emb CAA06835  2.0e-81 (AJ006055) glutathione reductase [Zea mays]		

Seq. No.	45505	Seq. ID	OJ000301_28.0330.C4
Gene No.	96232	Strand	-
Start	7377	End	11262
Name	OJ000301_28.0330.C4.o1.tm	Method	TBLASTX:Maize
Start	9078	End	9803
GI	none	Score	170
Exons	9078..9227, 9078..9227, 9079..9228, 9286..9591, 9287..9589, 9304..9591, 9692..9802, 9696..9803		

Seq. No.	45505	Seq. ID	OJ000301_28.0330.C4
Gene No.	96232	Strand	-
Start	7377	End	11262
Name	OJ000301_28.0330.C4.o7.tm	Method	TBLASTX:Maize
Start	10800	End	10973
GI	none	Score	224
Exons	10800..10973, 10814..10972		

Seq. No.	45505	Seq. ID	OJ000301_28.0330.C4
Gene No.	96232	Strand	-
Start	7377	End	11262
Name	OJ000301_28.0330.C4.o4.gp	Method	AAT/GAP

Start	11008	End	11262
GI	2312265	Score	465
Exons	11008..11262		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96233	Strand	+
Start	804	End	7338
Name	OJ000301_28.0330.C5.o1.gs	Method	GENSCAN
Start	804	End	7338
GI	none	Score	.79
Exons	804..971, 1521..1585, 1811..1877, 2268..2411, 2765..2853, 2996..3101, 3198..3285, 3748..3875, 3993..4171, 4380..4489, 4605..4714, 4804..4914, 4989..5102, 5178..5380, 5587..5785, 6137..6235, 6786..6823, 7248..7338		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96233	Strand	+
Start	804	End	7338
Name	OJ000301_28.0330.C5.o1.np	Method	AAT/NAP
Start	804	End	6274
GI	4006924	Score	2766
Exons	804..971, 1387..1482, 1569..1681, 1811..1877, 1966..2058, 2268..2411, 2765..2853, 2996..3101, 3198..3285, 3507..3625, 3714..3875, 3993..4171, 4380..4489, 4605..4714, 4804..4914, 4989..5102, 5178..5380, 5587..5920, 6137..6274		
GI Descrip.	(Z99708) beta-galactosidase like protein [Arabidopsis thaliana]		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96233	Strand	+
Start	804	End	7338
Name	OJ000301_28.0330.C5.o1.gp	Method	AAT/GAP
Start	1966	End	2869
GI	3766866	Score	575
Exons	1966..2058, 2268..2411, 2765..2869		
GI Descrip.	3860321/emb CAA10128  1.0e-45 (AJ012687) beta-galactosidase [Cicer arietinum]		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96233	Strand	+
Start	804	End	7338
Name	OJ000301_28.0330.C5.o2.gp	Method	AAT/GAP
Start	4410	End	4721
GI	1854133	Score	353
Exons	4410..4489, 4605..4721		
GI Descrip.	2961390/emb CAA18137  2.0e-18 (AL022141) beta-galactosidase like protein [Arabidopsis thaliana]		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96234	Strand	+
Start	11715	End	18084
Name	OJ000301_28.0330.C5.o3.gs	Method	GENSCAN
Start	11715	End	18084
GI	none	Score	.57
Exons	11715..11885, 16005..16697, 16903..17174, 17257..17317, 17416..18084		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
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Gene No.	96234	Strand	+
Start	11715	End	18084
Name	OJ000301_28.0330.C5.o5.gp	Method	AAT/GAP
Start	14834	End	15757
GI	none	Score	906
Exons	14834..14923, 15367..15757		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96234	Strand	+
Start	11715	End	18084
Name	OJ000301_28.0330.C5.o2.np	Method	AAT/NAP
Start	15866	End	18081
GI	7488122	Score	643
Exons	15866..15982, 16136..16540, 16577..16697, 16792..17174, 17257..17317, 17416..17679, 17854..18081		
GI Descrip.	probable homeobox protein T4L20.190 - Arabidopsis thaliana gi 3096930 emb CAA18840.1  (AL023094) Homeodomain-like protein [Arabidopsis thaliana] gi 7270411 emb CAB80178.1  (AL161585) Homeodomain-like protein [Arabidopsis thaliana]		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96234	Strand	+
Start	11715	End	18084
Name	OJ000301_28.0330.C5.o6.gp	Method	AAT/GAP
Start	16607	End	16925
GI	LIB3432-059-P1-K1-A7	Score	283
Exons	16607..16697, 16792..16925		
GI Descrip.	'3096930/emb CAA18840.1  6.0e-21 (AL023094) Homeodomain-like protein [Arabidopsis thaliana]'		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96234	Strand	+
Start	11715	End	18084
Name	OJ000301_28.0330.C5.o7.gp	Method	AAT/GAP
Start	17437	End	17799
GI	none	Score	539
Exons	17437..17799		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96235	Strand	+
Start	18130	End	18498
Name	OJ000301_28.0330.C5.o8.gp	Method	AAT/GAP
Start	18130	End	18498
GI	none	Score	607
Exons	18130..18498		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96236	Strand	-
Start	6530	End	6711
Name	OJ000301_28.0330.C5.o3.gp	Method	AAT/GAP
Start	6530	End	6711
GI	1854132	Score	344
Exons	6530..6711		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96237	Strand	-
Start	7814	End	11382

Name	OJ000301_28.0330.C5.o2.gs	Method	GENSCAN
Start	7814	End	11382
GI	none	Score	.42
Exons	7814..7920, 8170..8279, 8611..8730, 9300..9426, 9450..9583, 9654..10049, 10849..10929, 11375..11382		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96237	Strand	-
Start	7814	End	11382
Name	OJ000301_28.0330.C5.o4.gp	Method	AAT/GAP
Start	9575	End	10076
GI	25677_1.R1084	Score	926
Exons	9575..10076		
GI Descrip.	'20177/emb X13908 OSCABR1 2.0e-09 Rice cab1R gene for light harvesting chlorophyll a/b-binding protein'		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96238	Strand	-
Start	18951	End	19858
Name	OJ000301_28.0330.C5.o5.ts	Method	TBLASTX:Soybean
Start	840	End	2007
GI	none	Score	134
Exons	840..965, 879..974, 1374..1478, 1377..1478, 1384..1479, 1384..1482, 1565..1681, 1566..1682, 1566..1682, 1567..1683, 1793..1876, 1812..1877, 1812..1880, 1969..2007		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96238	Strand	-
Start	18951	End	19858
Name	OJ000301_28.0330.C5.o2.tc	Method	TBLASTX:Cress
Start	879	End	4169
GI	none	Score	123
Exons	879..974, 1384..1479, 1384..1479, 1386..1481, 1566..1682, 1568..1681, 1793..1876, 1809..1880, 1812..1877, 1950..2057, 1959..2057, 1972..2058, 2227..2391, 2247..2414, 2267..2407, 2764..2853, 2765..2854, 2766..2855, 2767..2856, 2971..3096, 2994..3089, 2996..3100, 2997..3101, 3179..3286, 3197..3253, 3198..3287, 3505..3612, 3506..3625, 3732..3878, 3738..3866, 3740..3877, 3986..4006, 4101..4169		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96238	Strand	-
Start	18951	End	19858
Name	OJ000301_28.0330.C5.o2.tm	Method	TBLASTX:Maize
Start	1617	End	4171
GI	none	Score	117
Exons	1617..1703, 1619..1681, 1960..2058, 1968..2057, 1973..2059, 2247..2414, 2267..2410, 2764..2850, 2765..2854, 2766..2858, 2994..3089, 2996..3100, 2997..3101, 3196..3330, 3198..3287, 3505..3630, 3506..3625, 3507..3626, 3508..3627, 3704..3877, 3711..3884, 3712..3894, 3712..3876, 3984..4169, 3993..4166, 3994..4167, 3995..4171		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96238	Strand	-
Start	18951	End	19858
Name	OJ000301_28.0330.C5.o4.ts	Method	TBLASTX:Soybean

Start	2008	End	6244
GI	none	Score	64
Exons	2008..2058, 2227..2403, 2247..2414, 2267..2407, 2764..2850, 2765..2854, 2773..2856, 2775..2855, 2971..3075, 2996..3100, 2997..3101, 3197..3286, 3197..3253, 3198..3287, 3198..3287, 3505..3612, 3506..3625, 3711..3749, 3732..3875, 3740..3874, 4101..4169, 6133..6234, 6140..6244		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96238	Strand	-
Start	18951	End	19858
Name	OJ000301_28.0330.C5.o1.tw	Method	TBLASTX:Wheat
Start	3077	End	4042
GI	none	Score	51
Exons	3077..3100, 3196..3306, 3198..3287, 3505..3624, 3506..3625, 3506..3643, 3508..3627, 3704..3877, 3711..3884, 3711..3881, 3712..3894, 3993..4040, 3993..4040, 3995..4042		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96238	Strand	-
Start	18951	End	19858
Name	OJ000301_28.0330.C5.o1.tm	Method	TBLASTX:Maize
Start	4362	End	6634
GI	none	Score	35
Exons	4362..4418, 4379..4414, 4413..4493, 4414..4491, 4599..4712, 4604..4714, 4795..4914, 4802..4915, 4803..4916, 4803..4916, 4804..4917, 4983..5108, 4988..5101, 5178..5381, 5181..5342, 5183..5383, 5191..5382, 5585..5656, 5586..5624, 5588..5665, 5627..5920, 5657..5899, 5665..5919, 6125..6265, 6130..6255, 6134..6265, 6413..6481, 6435..6485, 6519..6623, 6537..6590, 6590..6634		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96238	Strand	-
Start	18951	End	19858
Name	OJ000301_28.0330.C5.o1.ts	Method	TBLASTX:Soybean
Start	4429	End	5626
GI	none	Score	83
Exons	4429..4491, 4434..4499, 4598..4714, 4603..4713, 4803..4847, 4804..4848, 4852..4917, 4983..5108, 5177..5383, 5178..5381, 5206..5382, 5588..5626		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96238	Strand	-
Start	18951	End	19858
Name	OJ000301_28.0330.C5.o1.tc	Method	TBLASTX:Cress
Start	4597	End	5695
GI	none	Score	134
Exons	4597..4713, 4598..4714, 4803..4898, 4804..4914, 4983..5108, 4991..5101, 5175..5336, 5178..5381, 5183..5383, 5203..5382, 5585..5659, 5588..5695		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96238	Strand	-
Start	18951	End	19858
Name	OJ000301_28.0330.C5.o3.ts	Method	TBLASTX:Soybean
Start	5627	End	5920



GI	none	Score	205
Exons	5627..5770, 5627..5764, 5662..5772, 5767..5919, 5768..5920		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96238	Strand	-
Start	18951	End	19858
Name	OJ000301_28.0330.C5.o4.tc	Method	TBLASTX:Cress
Start	5695	End	6244
GI	none	Score	124
Exons	5695..5760, 5696..5764, 5761..5886, 5770..5916, 5771..5920, 6119..6244, 6130..6237		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96238	Strand	-
Start	18951	End	19858
Name	OJ000301_28.0330.C5.o5.tm	Method	TBLASTX:Maize
Start	16379	End	16723
GI	none	Score	118
Exons	16379..16534, 16388..16432, 16431..16535, 16434..16517, 16492..16533, 16602..16700, 16609..16698, 16610..16723, 16619..16699, 16632..16700		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96238	Strand	-
Start	18951	End	19858
Name	OJ000301_28.0330.C5.o2.ts	Method	TBLASTX:Soybean
Start	16593	End	17495
GI	none	Score	83
Exons	16593..16709, 16644..16700, 16789..16929, 16791..16922, 17008..17085, 17089..17151, 17094..17174, 17249..17320, 17260..17310, 17412..17495, 17416..17493		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96238	Strand	-
Start	18951	End	19858
Name	OJ000301_28.0330.C5.o4.tm	Method	TBLASTX:Maize
Start	16789	End	17504
GI	none	Score	148
Exons	16789..16929, 16839..16922, 17005..17085, 17089..17151, 17094..17177, 17249..17320, 17257..17310, 17416..17493, 17418..17504		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96238	Strand	-
Start	18951	End	19858
Name	OJ000301_28.0330.C5.o5.tc	Method	TBLASTX:Cress
Start	17092	End	17487
GI	none	Score	99
Exons	17092..17151, 17094..17177, 17249..17320, 17257..17304, 17406..17486, 17416..17487		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96238	Strand	-
Start	18951	End	19858
Name	OJ000301_28.0330.C5.o4.gs	Method	GENSCAN
Start	18951	End	19806
GI	none	Score	.43

Exons 18951..18954, 19034..19806

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96238	Strand	-
Start	18951	End	19858
Name	OJ000301_28.0330.C5.o3.np	Method	AAT/NAP
Start	19033	End	19858
GI	4544390	Score	721
Exons	19033..19858		
GI Descrip.	(AC007047) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96238	Strand	-
Start	18951	End	19858
Name	OJ000301_28.0330.C5.o6.tm	Method	TBLASTX:Maize
Start	19033	End	19254
GI	none	Score	101
Exons	19033..19254, 19048..19248		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96238	Strand	-
Start	18951	End	19858
Name	OJ000301_28.0330.C5.o3.tm	Method	TBLASTX:Maize
Start	19258	End	19854
GI	none	Score	271
Exons	19258..19617, 19259..19636, 19681..19854		

Seq. No.	45506	Seq. ID	OJ000301_28.0330.C5
Gene No.	96238	Strand	-
Start	18951	End	19858
Name	OJ000301_28.0330.C5.o3.tc	Method	TBLASTX:Cress
Start	19297	End	19633
GI	none	Score	246
Exons	19297..19617, 19298..19633		

Seq. No.	45507	Seq. ID	OJ000251_29.0323.C4
Gene No.	96239	Strand	+
Start	350	End	1121
Name	OJ000251_29.0323.C4.o1.gs	Method	GENSCAN
Start	350	End	825
GI	none	Score	.92
Exons	350..371, 752..825		

Seq. No.	45507	Seq. ID	OJ000251_29.0323.C4
Gene No.	96239	Strand	+
Start	350	End	1121
Name	OJ000251_29.0323.C4.o1.gp	Method	AAT/GAP
Start	619	End	1121
GI	38782_1.R1084	Score	780
Exons	619..1121		
GI Descrip.	'6069643/dbj AP000616.1 AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	45507	Seq. ID	OJ000251_29.0323.C4
Gene No.	96240	Strand	+
Start	2228	End	2584
Name	OJ000251_29.0323.C4.o2.gs	Method	GENSCAN

Start 2228  
GI none  
Exons 2228..2288, 2403..2584

End 2584  
Score .55

Seq. No. 45507  
Gene No. 96241  
Start 3900  
Name OJ000251\_29.0323.C4.o2.np  
Start 3900  
GI 6539588  
Exons 3900..3926, 4633..4914, 7089..7133  
GI Descrip. (AP000837) hypothetical protein [Oryza sativa]

Seq. ID OJ000251\_29.0323.C4  
Strand +  
End 7133  
Method AAT/NAP  
End 7133  
Score 239

Seq. No. 45507  
Gene No. 96242  
Start 3078  
Name OJ000251\_29.0323.C4.o3.gs  
Start 3078  
GI none  
Exons 3078..3164, 3587..3663, 4706..4768, 4774..4801

Seq. ID OJ000251\_29.0323.C4  
Strand -  
End 4801  
Method GENSCAN  
End 4801  
Score .7

Seq. No. 45507  
Gene No. 96243  
Start 7473  
Name OJ000251\_29.0323.C4.o2.gp  
Start 7140  
GI 21474\_1.R1084  
Exons 7140..7233  
GI Descrip. '3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'

Seq. ID OJ000251\_29.0323.C4  
Strand -  
End 9359  
Method AAT/GAP  
End 7233  
Score 136

Seq. No. 45507  
Gene No. 96243  
Start 7473  
Name OJ000251\_29.0323.C4.o4.gs  
Start 7473  
GI none  
Exons 7473..7672, 8095..8455

Seq. ID OJ000251\_29.0323.C4  
Strand -  
End 9359  
Method GENSCAN  
End 8455  
Score .61

Seq. No. 45507  
Gene No. 96243  
Start 7473  
Name OJ000251\_29.0323.C4.o3.np  
Start 8126  
GI 5852182  
Exons 8126..8455, 9320..9359  
GI Descrip. (AL117265) zhb0012.1 [Oryza sativa]

Seq. ID OJ000251\_29.0323.C4  
Strand -  
End 9359  
Method AAT/NAP  
End 9359  
Score 437

Seq. No. 45507  
Gene No. 96243  
Start 7473  
Name OJ000251\_29.0323.C4.o3.gp  
Start 8316  
GI 2310235  
Exons 8316..8455, 8868..8905  
GI Descrip. 5852182/emb|CAB55420.1| 9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]

Seq. ID OJ000251\_29.0323.C4  
Strand -  
End 9359  
Method AAT/GAP  
End 8905  
Score 299

Seq. No.	45508	Seq. ID	OJ000251_29.0323.C5
Gene No.	96244	Strand	+
Start	5750	End	6176
Name	OJ000251_29.0323.C5.o1.gp	Method	AAT/GAP
Start	5750	End	6176
GI	4878407	Score	672
Exons	5750..6176		
GI Descrip.	6069643/dbj AP000616.1 AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12		

Seq. No.	45508	Seq. ID	OJ000251_29.0323.C5
Gene No.	96245	Strand	-
Start	2394	End	4305
Name	OJ000251_29.0323.C5.o1.np	Method	AAT/NAP
Start	2394	End	4305
GI	6069653	Score	1178
Exons	2394..3433, 3460..4305		
GI Descrip.	(AP000616) hypothetical protein [Oryza sativa]		

Seq. No.	45508	Seq. ID	OJ000251_29.0323.C5
Gene No.	96246	Strand	-
Start	4921	End	7846
Name	OJ000251_29.0323.C5.o2.np	Method	AAT/NAP
Start	4921	End	7846
GI	4680186	Score	173
Exons	4921..4942, 5601..5734, 6312..6475, 7824..7846		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	45508	Seq. ID	OJ000251_29.0323.C5
Gene No.	96247	Strand	-
Start	9442	End	9926
Name	OJ000251_29.0323.C5.o2.gs	Method	GENSCAN
Start	9442	End	9814
GI	none	Score	.72
Exons	9442..9586, 9726..9814		

Seq. No.	45508	Seq. ID	OJ000251_29.0323.C5
Gene No.	96247	Strand	-
Start	9442	End	9926
Name	OJ000251_29.0323.C5.o1.tm	Method	TBLASTX:Maize
Start	9651	End	9926
GI	none	Score	96
Exons	9651..9926, 9732..9923		

Seq. No.	45509	Seq. ID	OJ000251_29.0323.C6
Gene No.	96248	Strand	+
Start	5124	End	5326
Name	OJ000251_29.0323.C6.o1.gp	Method	AAT/GAP
Start	5124	End	5326
GI	35479_1.R1084	Score	371
Exons	5124..5326		
GI Descrip.	'2982431/emb CAA18239.1  2.0e-31 (AL022224) leucine rich repeat-like protein [Arabidopsis thaliana]'		

Seq. No.	45509	Seq. ID	OJ000251_29.0323.C6
Gene No.	96249	Strand	-

Start	1237	End	9153
Name	OJ000251_29.0323.C6.o2.gs	Method	GENSCAN
Start	1237	End	9153
GI	none	Score	.53
Exons	1237..1356, 1497..1638, 2551..2657, 5592..5805, 6130..6216, 6518..6548, 8382..8661, 9103..9153		

Seq. No.	45510	Seq. ID	OJ000251_29.0323.C7
Gene No.	96250	Strand	+
Start	10187	End	11224
Name	OJ000251_29.0323.C7.o1.np	Method	AAT/NAP
Start	10187	End	11224
GI	6996255	Score	781
Exons	10187..11224		
GI Descrip.	(AL138657) copia-like polyprotein [Arabidopsis thaliana]		

Seq. No.	45510	Seq. ID	OJ000251_29.0323.C7
Gene No.	96251	Strand	+
Start	12929	End	17440
Name	OJ000251_29.0323.C7.o4.gs	Method	GENSCAN
Start	12929	End	17440
GI	none	Score	.69
Exons	12929..13047, 13142..13243, 13776..13897, 14808..14978, 16240..16452, 17358..17440		

Seq. No.	45510	Seq. ID	OJ000251_29.0323.C7
Gene No.	96252	Strand	+
Start	26631	End	27888
Name	OJ000251_29.0323.C7.o2.np	Method	AAT/NAP
Start	26631	End	27888
GI	6997177	Score	850
Exons	26631..26780, 26808..27888		
GI Descrip.	(AC023839) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45510	Seq. ID	OJ000251_29.0323.C7
Gene No.	96253	Strand	+
Start	34483	End	34998
Name	OJ000251_29.0323.C7.o4.np	Method	AAT/NAP
Start	34483	End	34998
GI	6907088	Score	295
Exons	34483..34619, 34795..34998		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	45510	Seq. ID	OJ000251_29.0323.C7
Gene No.	96254	Strand	-
Start	5285	End	7633
Name	OJ000251_29.0323.C7.o2.gs	Method	GENSCAN
Start	5285	End	7633
GI	none	Score	.8
Exons	5285..5634, 5863..5958, 6498..6625, 6668..6836, 7582..7633		

Seq. No.	45510	Seq. ID	OJ000251_29.0323.C7
Gene No.	96255	Strand	-
Start	8651	End	11051
Name	OJ000251_29.0323.C7.o3.gs	Method	GENSCAN
Start	8651	End	11051
GI	none	Score	.49

Exons 8651..8759, 9257..9518, 9548..9614, 10998..11051

Seq. No.	45510	Seq. ID	OJ000251_29.0323.C7
Gene No.	96256	Strand	-
Start	29614	End	34998
Name	OJ000251_29.0323.C7.o4.tm	Method	TBLASTX:Maize
Start	10296	End	10746
GI	none	Score	104
Exons	10296..10454, 10416..10733, 10430..10741, 10430..10705, 10495..10746		

Seq. No.	45510	Seq. ID	OJ000251_29.0323.C7
Gene No.	96256	Strand	-
Start	29614	End	34998
Name	OJ000251_29.0323.C7.o3.tw	Method	TBLASTX:Wheat
Start	10299	End	10643
GI	none	Score	223
Exons	10299..10643		

Seq. No.	45510	Seq. ID	OJ000251_29.0323.C7
Gene No.	96256	Strand	-
Start	29614	End	34998
Name	OJ000251_29.0323.C7.o5.tw	Method	TBLASTX:Wheat
Start	10739	End	11191
GI	none	Score	138
Exons	10739..10969, 10770..10988, 10992..11057, 11060..11191		

Seq. No.	45510	Seq. ID	OJ000251_29.0323.C7
Gene No.	96256	Strand	-
Start	29614	End	34998
Name	OJ000251_29.0323.C7.o2.tm	Method	TBLASTX:Maize
Start	10796	End	11218
GI	none	Score	158
Exons	10796..11044, 10796..11044, 10797..11057, 11054..11218, 11063..11212		

Seq. No.	45510	Seq. ID	OJ000251_29.0323.C7
Gene No.	96256	Strand	-
Start	29614	End	34998
Name	OJ000251_29.0323.C7.o1.ts	Method	TBLASTX:Soybean
Start	10818	End	11092
GI	none	Score	207
Exons	10818..11057, 10820..10957, 10821..11054, 11060..11092		

Seq. No.	45510	Seq. ID	OJ000251_29.0323.C7
Gene No.	96256	Strand	-
Start	29614	End	34998
Name	OJ000251_29.0323.C7.o3.tm	Method	TBLASTX:Maize
Start	26759	End	27237
GI	none	Score	321
Exons	26759..27103, 26774..27082, 26914..27126, 27102..27182, 27103..27237, 27139..27237		

Seq. No.	45510	Seq. ID	OJ000251_29.0323.C7
Gene No.	96256	Strand	-
Start	29614	End	34998
Name	OJ000251_29.0323.C7.o4.tw	Method	TBLASTX:Wheat

Start	26804	End	27100
GI	none	Score	221
Exons	26804..27100, 26815..27093		
Seq. No.	45510	Seq. ID	OJ000251_29.0323.C7
Gene No.	96256	Strand	-
Start	29614	End	34998
Name	OJ000251_29.0323.C7.o1.tw	Method	TBLASTX:Wheat
Start	27127	End	27531
GI	none	Score	472
Exons	27127..27531, 27129..27512		
Seq. No.	45510	Seq. ID	OJ000251_29.0323.C7
Gene No.	96256	Strand	-
Start	29614	End	34998
Name	OJ000251_29.0323.C7.o1.tm	Method	TBLASTX:Maize
Start	27255	End	27732
GI	none	Score	478
Exons	27255..27626, 27256..27627, 27477..27638, 27624..27665, 27625..27663, 27661..27732, 27667..27732		
Seq. No.	45510	Seq. ID	OJ000251_29.0323.C7
Gene No.	96256	Strand	-
Start	29614	End	34998
Name	OJ000251_29.0323.C7.o2.tw	Method	TBLASTX:Wheat
Start	27532	End	27759
GI	none	Score	247
Exons	27532..27759, 27532..27753		
Seq. No.	45510	Seq. ID	OJ000251_29.0323.C7
Gene No.	96256	Strand	-
Start	29614	End	34998
Name	OJ000251_29.0323.C7.o3.np	Method	AAT/NAP
Start	29614	End	34998
GI	5305335	Score	127
Exons	29614..29682, 31893..32287, 34935..34998		
GI Descrip.	(AF071081) proline-rich mucin homolog [Mycobacterium tuberculosis]		
Seq. No.	45511	Seq. ID	OJ000251_29.0323.C8
Gene No.	96257	Strand	+
Start	241	End	805
Name	OJ000251_29.0323.C8.o1.np	Method	AAT/NAP
Start	241	End	805
GI	6907086	Score	548
Exons	241..805		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		
Seq. No.	45511	Seq. ID	OJ000251_29.0323.C8
Gene No.	96258	Strand	-
Start	79	End	611
Name	OJ000251_29.0323.C8.o1.gs	Method	GENSCAN
Start	79	End	611
GI	none	Score	.5
Exons	79..120, 366..391, 473..611		
Seq. No.	45512	Seq. ID	OJ000251_29.0323.C14

Gene No.	96259	Strand	+
Start	136	End	581
Name	OJ000251_29.0323.C14.o1.gs	Method	GENSCAN
Start	136	End	581
GI	none	Score	.62
Exons	136..150, 507..581		

Seq. No.	45513	Seq. ID	OJ000251_29.0323.C16
Gene No.	96260	Strand	-
Start	1	End	1328
Name	OJ000251_29.0323.C16.o1.np	Method	AAT/NAP
Start	1	End	839
GI	6539580	Score	224
Exons	1..200, 295..839		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	45513	Seq. ID	OJ000251_29.0323.C16
Gene No.	96260	Strand	-
Start	1	End	1328
Name	OJ000251_29.0323.C16.o1.gs	Method	GENSCAN
Start	563	End	1328
GI	none	Score	.66
Exons	563..887, 1025..1062, 1161..1328		

Seq. No.	45513	Seq. ID	OJ000251_29.0323.C16
Gene No.	96261	Strand	-
Start	5375	End	5484
Name	OJ000251_29.0323.C16.o3.gs	Method	GENSCAN
Start	5375	End	5484
GI	none	Score	.89
Exons	5375..5484		

Seq. No.	45514	Seq. ID	OJ000251_29.0323.C17
Gene No.	96262	Strand	+
Start	395	End	717
Name	OJ000251_29.0323.C17.o1.gp	Method	AAT/GAP
Start	395	End	565
GI	2310235	Score	242
Exons	395..565		
GI Descrip.	5852182/emb CAB55420.1  9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	45514	Seq. ID	OJ000251_29.0323.C17
Gene No.	96262	Strand	+
Start	395	End	717
Name	OJ000251_29.0323.C17.o1.gs	Method	GENSCAN
Start	426	End	709
GI	none	Score	.44
Exons	426..709		

Seq. No.	45514	Seq. ID	OJ000251_29.0323.C17
Gene No.	96262	Strand	+
Start	395	End	717
Name	OJ000251_29.0323.C17.o1.np	Method	AAT/NAP
Start	426	End	717
GI	5852182	Score	393
Exons	426..717		



GI Descrip. (AL117265) zhb0012.1 [Oryza sativa]

Seq. No.	45515	Seq. ID	OJ000251_29.0323.C18
Gene No.	96263	Strand	+
Start	1	End	1822
Name	OJ000251_29.0323.C18.o1.np	Method	AAT/NAP
Start	1	End	1263
GI	6742729	Score	1951

Exons 1..1263

GI Descrip. (AF121139) RIM2 protein [Oryza sativa]

Seq. No.	45515	Seq. ID	OJ000251_29.0323.C18
Gene No.	96263	Strand	+
Start	1	End	1822
Name	OJ000251_29.0323.C18.o1.gs	Method	GENSCAN
Start	29	End	1822
GI	none	Score	.51
Exons	29..1344, 1426..1822		

Seq. No.	45515	Seq. ID	OJ000251_29.0323.C18
Gene No.	96264	Strand	-
Start	1441	End	1885
Name	OJ000251_29.0323.C18.o2.tw	Method	TBLASTX:Wheat
Start	22	End	429
GI	none	Score	71
Exons	22..66, 29..82, 88..264, 92..310, 343..429, 344..427		

Seq. No.	45515	Seq. ID	OJ000251_29.0323.C18
Gene No.	96264	Strand	-
Start	1441	End	1885
Name	OJ000251_29.0323.C18.o1.tw	Method	TBLASTX:Wheat
Start	430	End	1738
GI	none	Score	967
Exons	430..1332, 431..1348, 1341..1382, 1342..1389, 1390..1485, 1394..1453, 1432..1572, 1433..1573, 1586..1666, 1655..1738		

Seq. No.	45515	Seq. ID	OJ000251_29.0323.C18
Gene No.	96264	Strand	-
Start	1441	End	1885
Name	OJ000251_29.0323.C18.o1.tm	Method	TBLASTX:Maize
Start	473	End	787
GI	none	Score	312
Exons	473..787, 484..759, 563..787		

Seq. No.	45515	Seq. ID	OJ000251_29.0323.C18
Gene No.	96264	Strand	-
Start	1441	End	1885
Name	OJ000251_29.0323.C18.o1.tc	Method	TBLASTX:Cress
Start	714	End	1167
GI	none	Score	420
Exons	714..878, 718..1167, 722..1165		

Seq. No.	45515	Seq. ID	OJ000251_29.0323.C18
Gene No.	96264	Strand	-
Start	1441	End	1885
Name	OJ000251_29.0323.C18.o1.gp	Method	AAT/GAP
Start	1441	End	1885

GI LIB3431-028-P1-N1-A10 Score 770  
 Exons 1441..1787, 1815..1885  
 GI Descrip. '4680203/gb|AAD27566.1|AF114171\_7 3.0e-33 (AF114171) TNP2-like protein [Sorghum bicolor]'

Seq. No. 45516 Seq. ID OJ000251\_29.0323.C19  
 Gene No. 96265 Strand +  
 Start 2743 End 3252  
 Name OJ000251\_29.0323.C19.o1.gp Method AAT/GAP  
 Start 2743 End 3252  
 GI 38782\_1.R1084 Score 817  
 Exons 2743..3252  
 GI Descrip. '6069643/dbj|AP000616.1|AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'

Seq. No. 45516 Seq. ID OJ000251\_29.0323.C19  
 Gene No. 96266 Strand +  
 Start 4362 End 9093  
 Name OJ000251\_29.0323.C19.o2.gs Method GENSCAN  
 Start 4362 End 9007  
 GI none Score .66  
 Exons 4362..4463, 4483..4659, 5443..5821, 5942..6241, 6458..6699, 6745..6864, 6960..7101, 7201..7319, 7321..8006, 8114..8287, 8382..8492, 8577..8649, 8744..8842, 8921..9007

Seq. No. 45516 Seq. ID OJ000251\_29.0323.C19  
 Gene No. 96266 Strand +  
 Start 4362 End 9093  
 Name OJ000251\_29.0323.C19.o3.np Method AAT/NAP  
 Start 5428 End 9093  
 GI 4680204 Score 899  
 Exons 5428..6864, 6960..8006, 8114..8287, 8382..8530, 8884..9093  
 GI Descrip. (AF114171) hypothetical protein [Sorghum bicolor]

Seq. No. 45516 Seq. ID OJ000251\_29.0323.C19  
 Gene No. 96266 Strand +  
 Start 4362 End 9093  
 Name OJ000251\_29.0323.C19.o2.gp Method AAT/GAP  
 Start 5630 End 5894  
 GI 2310235 Score 396  
 Exons 5630..5894  
 GI Descrip. 5852182/emb|CAB55420.1| 9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]

Seq. No. 45516 Seq. ID OJ000251\_29.0323.C19  
 Gene No. 96267 Strand +  
 Start 12885 End 13130  
 Name OJ000251\_29.0323.C19.o5.np Method AAT/NAP  
 Start 12885 End 13130  
 GI 7340924 Score 77  
 Exons 12885..13130  
 GI Descrip. (AP001550) hypothetical protein [Oryza sativa]

Seq. No. 45516 Seq. ID OJ000251\_29.0323.C19  
 Gene No. 96268 Strand -  
 Start 1 End 3953  
 Name OJ000251\_29.0323.C19.o1.np Method AAT/NAP

Start	1	End	1321
GI	6907086	Score	1510
Exons	1..43, 269..498, 556..1321		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	45516	Seq. ID	OJ000251_29.0323.C19
Gene No.	96268	Strand	-
Start	1	End	3953
Name	OJ000251_29.0323.C19.o1.gs	Method	GENSCAN
Start	256	End	2126
GI	none	Score	.65
Exons	256..425, 593..1012, 2046..2126		

Seq. No.	45516	Seq. ID	OJ000251_29.0323.C19
Gene No.	96268	Strand	-
Start	1	End	3953
Name	OJ000251_29.0323.C19.o2.np	Method	AAT/NAP
Start	2022	End	3953
GI	4680186	Score	173
Exons	2022..2439, 2939..3042, 3931..3953		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	45516	Seq. ID	OJ000251_29.0323.C19
Gene No.	96269	Strand	-
Start	6069	End	6474
Name	OJ000251_29.0323.C19.o1.tw	Method	TBLASTX:Wheat
Start	6069	End	6474
GI	none	Score	64
Exons	6069..6341, 6071..6211, 6073..6309, 6304..6474		

Seq. No.	45517	Seq. ID	OJ000251_29.0323.C20
Gene No.	96270	Strand	+
Start	473	End	3805
Name	OJ000251_29.0323.C20.o1.gs	Method	GENSCAN
Start	473	End	3805
GI	none	Score	.55
Exons	473..511, 640..748, 1279..1398, 3513..3549, 3784..3805		

Seq. No.	45517	Seq. ID	OJ000251_29.0323.C20
Gene No.	96271	Strand	+
Start	12140	End	12437
Name	OJ000251_29.0323.C20.o1.gp	Method	AAT/GAP
Start	12140	End	12437
GI	61605_3.R1084	Score	.437
Exons	12140..12437		
GI Descrip.	'1402920/emb CAA66965  2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	45517	Seq. ID	OJ000251_29.0323.C20
Gene No.	96272	Strand	+
Start	13412	End	14148
Name	OJ000251_29.0323.C20.o2.gp	Method	AAT/GAP
Start	13412	End	14148
GI	101153_1.R1084	Score	378
Exons	13412..13661, 14047..14148		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:tl7804'		

Seq. No.	45517	Seq. ID	OJ000251_29.0323.C20
Gene No.	96273	Strand	+
Start	15912	End	17456
Name	OJ000251_29.0323.C20.o1.np	Method	AAT/NAP
Start	15784	End	17456
GI	6907086	Score	1097
Exons	15784..16539, 16597..16849, 17058..17456		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	45517	Seq. ID	OJ000251_29.0323.C20
Gene No.	96273	Strand	+
Start	15912	End	17456
Name	OJ000251_29.0323.C20.o5.gs	Method	GENSCAN
Start	15912	End	16522
GI	none	Score	.76
Exons	15912..15990, 16047..16377, 16402..16522		

Seq. No.	45517	Seq. ID	OJ000251_29.0323.C20
Gene No.	96274	Strand	-
Start	5028	End	8928
Name	OJ000251_29.0323.C20.o2.gs	Method	GENSCAN
Start	5028	End	8928
GI	none	Score	.61
Exons	5028..5147, 8227..8269, 8792..8928		

Seq. No.	45518	Seq. ID	OJ000251_29.0323.C21
Gene No.	96275	Strand	+
Start	61	End	1351
Name	OJ000251_29.0323.C21.o1.gs	Method	GENSCAN
Start	61	End	1351
GI	none	Score	.85
Exons	61..126, 829..945, 1247..1351		

Seq. No.	45518	Seq. ID	OJ000251_29.0323.C21
Gene No.	96276	Strand	+
Start	8674	End	8943
Name	OJ000251_29.0323.C21.o1.tw	Method	TBLASTX:Wheat
Start	8674	End	8943
GI	none	Score	84
Exons	8674..8781, 8779..8943, 8813..8923		

Seq. No.	45519	Seq. ID	OJ000251_29.0323.C22
Gene No.	96277	Strand	+
Start	3972	End	8400
Name	OJ000251_29.0323.C22.o2.gs	Method	GENSCAN
Start	3972	End	7417
GI	none	Score	.53
Exons	3972..4218, 4653..4731, 4775..4869, 6264..6407, 6816..7417		

Seq. No.	45519	Seq. ID	OJ000251_29.0323.C22
Gene No.	96277	Strand	+
Start	3972	End	8400
Name	OJ000251_29.0323.C22.o1.np	Method	AAT/NAP
Start	4065	End	8400
GI	6815052	Score	2090
Exons	4065..4218, 4299..4373, 4653..4770, 5068..5167, 6045..6137,		

GI Descrip.	6917..7066, 7115..7846, 7928..8002, 8282..8400 (AP001080) hypothetical protein [Oryza sativa]		
Seq. No.	45519	Seq. ID	OJ000251_29.0323.C22
Gene No.	96277	Strand	+
Start	3972	End	8400
Name	OJ000251_29.0323.C22.o1.gp	Method	AAT/GAP
Start	4072	End	4468
GI	LIB3434-005-P1-K1-H8	Score	536
Exons	4072..4468		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-50 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		
Seq. No.	45519	Seq. ID	OJ000251_29.0323.C22
Gene No.	96278	Strand	+
Start	10804	End	12852
Name	OJ000251_29.0323.C22.o4.gs	Method	GENSCAN
Start	10804	End	12852
GI	none	Score	.85
Exons	10804..10822, 12623..12852		
Seq. No.	45519	Seq. ID	OJ000251_29.0323.C22
Gene No.	96279	Strand	-
Start	14378	End	15116
Name	OJ000251_29.0323.C22.o2.np	Method	AAT/NAP
Start	13346	End	15116
GI	6907086	Score	1756
Exons	13346..13698, 13822..13869, 14096..14340, 14398..15116		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		
Seq. No.	45519	Seq. ID	OJ000251_29.0323.C22
Gene No.	96279	Strand	-
Start	14378	End	15116
Name	OJ000251_29.0323.C22.o5.gs	Method	GENSCAN
Start	14378	End	14749
GI	none	Score	.91
Exons	14378..14749		
Seq. No.	45519	Seq. ID	OJ000251_29.0323.C22
Gene No.	96280	Strand	-
Start	15825	End	17460
Name	OJ000251_29.0323.C22.o1.tw	Method	TBLASTX:Wheat
Start	6362	End	6856
GI	none	Score	88
Exons	6362..6541, 6581..6856		
Seq. No.	45519	Seq. ID	OJ000251_29.0323.C22
Gene No.	96280	Strand	-
Start	15825	End	17460
Name	OJ000251_29.0323.C22.o3.np	Method	AAT/NAP
Start	15825	End	17460
GI	4680186	Score	182
Exons	15825..16235, 16733..16804, 17166..17460		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		
Seq. No.	45520	Seq. ID	OJ000251_26.0323.C1
Gene No.	96281	Strand	+

Start	163	End	528
Name	OJ000251_26.0323.C1.o1.gs	Method	GENSCAN
Start	163	End	528
GI	none	Score	.99
Exons	163..528		

Seq. No.	45521	Seq. ID	OJ000251_26.0323.C2
Gene No.	96282	Strand	-
Start	281	End	1722
Name	OJ000251_26.0323.C2.o1.gs	Method	GENSCAN
Start	281	End	1722
GI	none	Score	.75
Exons	281..524, 1212..1285, 1561..1722		

Seq. No.	45522	Seq. ID	OJ000251_26.0323.C3
Gene No.	96283	Strand	+
Start	187	End	339
Name	OJ000251_26.0323.C3.o1.gs	Method	GENSCAN
Start	187	End	339
GI	none	Score	.92
Exons	187..339		

Seq. No.	45522	Seq. ID	OJ000251_26.0323.C3
Gene No.	96284	Strand	+
Start	1283	End	1444
Name	OJ000251_26.0323.C3.o4.gp	Method	AAT/GAP
Start	1283	End	1444
GI	LIB3431-028-P1-N1-A10	Score	232
Exons	1283..1353, 1381..1444		
GI Descrip.	'4680203/gb AAD27566.1 AF114171_7 3.0e-33 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	45522	Seq. ID	OJ000251_26.0323.C3
Gene No.	96285	Strand	-
Start	423	End	1444
Name	OJ000251_26.0323.C3.o1.gp	Method	AAT/GAP
Start	423	End	1444
GI	342_1.R1084	Score	1327
Exons	423..929, 1039..1136, 1219..1238, 1274..1444		
GI Descrip.	'4574406/gb AAD24042.1  0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	45523	Seq. ID	OJ000251_26.0323.C4
Gene No.	96286	Strand	-
Start	1	End	3034
Name	OJ000251_26.0323.C4.o1.gp	Method	AAT/GAP
Start	1	End	2310
GI	342_1.R1084	Score	3930
Exons	1..2310		
GI Descrip.	'4574406/gb AAD24042.1  0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	45523	Seq. ID	OJ000251_26.0323.C4
Gene No.	96286	Strand	-
Start	1	End	3034
Name	OJ000251_26.0323.C4.o2.tw	Method	TBLASTX:Wheat
Start	1	End	375

GI	none	Score	382
Exons	1..375, 3..374		
Seq. No.	45523	Seq. ID	OJ000251_26.0323.C4
Gene No.	96286	Strand	-
Start	1	End	3034
Name	OJ000251_26.0323.C4.o1.np	Method	AAT/NAP
Start	1	End	3034
GI	4680203	Score	2340
Exons	1..20, 233..488, 642..2314, 2975..3034		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		
Seq. No.	45523	Seq. ID	OJ000251_26.0323.C4
Gene No.	96286	Strand	-
Start	1	End	3034
Name	OJ000251_26.0323.C4.o2.tm	Method	TBLASTX:Maize
Start	18	End	332
GI	none	Score	69
Exons	18..248, 18..332, 46..321		
Seq. No.	45523	Seq. ID	OJ000251_26.0323.C4
Gene No.	96286	Strand	-
Start	1	End	3034
Name	OJ000251_26.0323.C4.o1.gs	Method	GENSCAN
Start	25	End	2314
GI	none	Score	.53
Exons	25..809, 818..2314		
Seq. No.	45523	Seq. ID	OJ000251_26.0323.C4
Gene No.	96286	Strand	-
Start	1	End	3034
Name	OJ000251_26.0323.C4.o3.tw	Method	TBLASTX:Wheat
Start	376	End	786
GI	none	Score	81
Exons	376..462, 378..467, 378..461, 495..713, 544..717, 723..785, 736..786		
Seq. No.	45523	Seq. ID	OJ000251_26.0323.C4
Gene No.	96286	Strand	-
Start	1	End	3034
Name	OJ000251_26.0323.C4.o2.ts	Method	TBLASTX:Soybean
Start	836	End	1060
GI	none	Score	206
Exons	836..1060		
Seq. No.	45523	Seq. ID	OJ000251_26.0323.C4
Gene No.	96286	Strand	-
Start	1	End	3034
Name	OJ000251_26.0323.C4.o1.tm	Method	TBLASTX:Maize
Start	890	End	1336
GI	none	Score	99
Exons	890..1084, 1094..1336, 1095..1328		
Seq. No.	45523	Seq. ID	OJ000251_26.0323.C4
Gene No.	96286	Strand	-
Start	1	End	3034
Name	OJ000251_26.0323.C4.o1.tw	Method	TBLASTX:Wheat

Start	924	End	1393
GI	none	Score	173
Exons	924..1130, 924..1133, 929..1132, 929..1153, 1132..1224, 1133..1231, 1134..1226, 1235..1339, 1239..1328, 1340..1393, 1341..1385		

Seq. No.	45523	Seq. ID	OJ000251_26.0323.C4
Gene No.	96286	Strand	-
Start	1	End	3034
Name	OJ000251_26.0323.C4.o1.tc	Method	TBLASTX:Cress
Start	1181	End	1529
GI	none	Score	90
Exons	1181..1522, 1185..1337, 1377..1529		

Seq. No.	45523	Seq. ID	OJ000251_26.0323.C4
Gene No.	96286	Strand	-
Start	1	End	3034
Name	OJ000251_26.0323.C4.o1.ts	Method	TBLASTX:Soybean
Start	1262	End	1691
GI	none	Score	121
Exons	1262..1558, 1280..1504, 1553..1615, 1608..1691, 1616..1690		

Seq. No.	45523	Seq. ID	OJ000251_26.0323.C4
Gene No.	96286	Strand	-
Start	1	End	3034
Name	OJ000251_26.0323.C4.o4.tw	Method	TBLASTX:Wheat
Start	1612	End	1963
GI	none	Score	187
Exons	1612..1863, 1622..1873, 1623..1865, 1648..1872, 1856..1963		

Seq. No.	45523	Seq. ID	OJ000251_26.0323.C4
Gene No.	96286	Strand	-
Start	1	End	3034
Name	OJ000251_26.0323.C4.o4.gp	Method	AAT/GAP
Start	2175	End	2763
GI	2310235	Score	301
Exons	2175..2314, 2726..2763		
GI Descrip.	5852182/emb CAB55420.1  9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	45524	Seq. ID	OJ000251_26.0323.C5
Gene No.	96287	Strand	+
Start	10625	End	10944
Name	OJ000251_26.0323.C5.o1.gp	Method	AAT/GAP
Start	10625	End	10944
GI	uC-osf1M202014c01b1	Score	552
Exons	10625..10944		
GI Descrip.	'395930/emb X66522 OSTOS12A 8.0e-49 O.sativa retrotransposon Tos1-2 >gi_2176333_dbj_E08212_E08212 DNA sequence containing retrotransposon region'		

Seq. No.	45524	Seq. ID	OJ000251_26.0323.C5
Gene No.	96288	Strand	+
Start	11104	End	11445
Name	OJ000251_26.0323.C5.o2.gp	Method	AAT/GAP
Start	10953	End	11079
GI	1427_1.R1084	Score	173



Exons 10953..11079  
 GI Descrip. '4504379/ref|NP\_003658.1|pHG38| 2.0e-13 G protein-coupled  
 receptor 49 >gi\_3366802 (AF062006) orphan G protein-coupled  
 receptor HG38 [Homo sapiens]'

Seq. No.	45524	Seq. ID	OJ000251_26.0323.C5
Gene No.	96288	Strand	+
Start	11104	End	11445
Name	OJ000251_26.0323.C5.o3.gs	Method	GENSCAN
Start	11104	End	11445
GI	none	Score	.72
Exons	11104..11445		

Seq. No.	45524	Seq. ID	OJ000251_26.0323.C5
Gene No.	96289	Strand	+
Start	14896	End	15313
Name	OJ000251_26.0323.C5.o5.gs	Method	GENSCAN
Start	14896	End	15313
GI	none	Score	.64
Exons	14896..15150, 15218..15313		

Seq. No.	45524	Seq. ID	OJ000251_26.0323.C5
Gene No.	96290	Strand	-
Start	1371	End	2719
Name	OJ000251_26.0323.C5.o1.np	Method	AAT/NAP
Start	1371	End	2719
GI	4680203	Score	1067
Exons	1371..1462, 1650..2719		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	45524	Seq. ID	OJ000251_26.0323.C5
Gene No.	96291	Strand	-
Start	11957	End	14711
Name	OJ000251_26.0323.C5.o2.np	Method	AAT/NAP
Start	11957	End	14711
GI	1706331	Score	349
Exons	11957..12004, 14416..14711		
GI Descrip.	PYRUVATE DECARBOXYLASE ISOZYME 3 (PDC) gi 476284 (U07338) pyruvate decarboxylase [Oryza sativa]		

Seq. No.	45524	Seq. ID	OJ000251_26.0323.C5
Gene No.	96291	Strand	-
Start	11957	End	14711
Name	OJ000251_26.0323.C5.o4.gs	Method	GENSCAN
Start	12080	End	14708
GI	none	Score	.91
Exons	12080..12115, 12242..12346, 14164..14282, 14399..14708		

Seq. No.	45524	Seq. ID	OJ000251_26.0323.C5
Gene No.	96292	Strand	-
Start	16502	End	16964
Name	OJ000251_26.0323.C5.o1.ts	Method	TBLASTX:Soybean
Start	1662	End	2089
GI	none	Score	76
Exons	1662..1832, 1675..1824, 1856..1957, 1952..2011, 2015..2089		

Seq. No.	45524	Seq. ID	OJ000251_26.0323.C5
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Gene No.	96292	Strand	-
Start	16502	End	16964
Name	OJ000251_26.0323.C5.o1.tw	Method	TBLASTX:Wheat
Start	2007	End	2372
GI	none	Score	142
Exons	2007..2186, 2014..2190, 2019..2180, 2021..2200, 2190..2231, 2191..2244, 2194..2364, 2271..2372		

Seq. No.	45524	Seq. ID	OJ000251_26.0323.C5
Gene No.	96292	Strand	-
Start	16502	End	16964
Name	OJ000251_26.0323.C5.o1.tc	Method	TBLASTX:Cress
Start	14418	End	14646
GI	none	Score	125
Exons	14418..14645, 14424..14645, 14524..14646		

Seq. No.	45524	Seq. ID	OJ000251_26.0323.C5
Gene No.	96292	Strand	-
Start	16502	End	16964
Name	OJ000251_26.0323.C5.o2.ts	Method	TBLASTX:Soybean
Start	14418	End	14786
GI	none	Score	193
Exons	14418..14669, 14424..14645, 14530..14658, 14760..14786		

Seq. No.	45524	Seq. ID	OJ000251_26.0323.C5
Gene No.	96292	Strand	-
Start	16502	End	16964
Name	OJ000251_26.0323.C5.o6.gs	Method	GENSCAN
Start	16502	End	16964
GI	none	Score	.56
Exons	16502..16528, 16785..16964		

Seq. No.	45525	Seq. ID	OJ000251_26.0323.C6
Gene No.	96293	Strand	+
Start	1491	End	7817
Name	OJ000251_26.0323.C6.o2.gs	Method	GENSCAN
Start	1491	End	4676
GI	none	Score	.67
Exons	1491..1575, 3495..4093, 4242..4676		

Seq. No.	45525	Seq. ID	OJ000251_26.0323.C6
Gene No.	96293	Strand	+
Start	1491	End	7817
Name	OJ000251_26.0323.C6.o1.np	Method	AAT/NAP
Start	1876	End	6908
GI	5902445	Score	897
Exons	1876..1912, 3265..4241, 6848..6908		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	45525	Seq. ID	OJ000251_26.0323.C6
Gene No.	96293	Strand	+
Start	1491	End	7817
Name	OJ000251_26.0323.C6.o3.gs	Method	GENSCAN
Start	6074	End	7817
GI	none	Score	.56
Exons	6074..6622, 6721..6880, 6995..7272, 7776..7817		

Seq. No.	45525	Seq. ID	OJ000251_26.0323.C6
Gene No.	96294	Strand	+
Start	8639	End	8869
Name	OJ000251_26.0323.C6.o4.gs	Method	GENSCAN
Start	8639	End	8869
GI	none	Score	1
Exons	8639..8869		

Seq. No.	45525	Seq. ID	OJ000251_26.0323.C6
Gene No.	96295	Strand	-
Start	16	End	331
Name	OJ000251_26.0323.C6.o1.gs	Method	GENSCAN
Start	16	End	331
GI	none	Score	.97
Exons	16..331		

Seq. No.	45525	Seq. ID	OJ000251_26.0323.C6
Gene No.	96296	Strand	-
Start	10299	End	20766
Name	OJ000251_26.0323.C6.o1.tm	Method	TBLASTX:Maize
Start	3328	End	3712
GI	none	Score	332
Exons	3328..3408, 3332..3712, 3496..3711		

Seq. No.	45525	Seq. ID	OJ000251_26.0323.C6
Gene No.	96296	Strand	-
Start	10299	End	20766
Name	OJ000251_26.0323.C6.o1.tw	Method	TBLASTX:Wheat
Start	3386	End	3810
GI	none	Score	471
Exons	3386..3808, 3389..3670, 3496..3810		

Seq. No.	45525	Seq. ID	OJ000251_26.0323.C6
Gene No.	96296	Strand	-
Start	10299	End	20766
Name	OJ000251_26.0323.C6.o1.ts	Method	TBLASTX:Soybean
Start	3440	End	3865
GI	none	Score	320
Exons	3440..3865, 3499..3624, 3676..3708		

Seq. No.	45525	Seq. ID	OJ000251_26.0323.C6
Gene No.	96296	Strand	-
Start	10299	End	20766
Name	OJ000251_26.0323.C6.o2.tw	Method	TBLASTX:Wheat
Start	3814	End	4099
GI	none	Score	67
Exons	3814..3882, 3815..3883, 3887..4099, 3890..4009, 3895..4092		

Seq. No.	45525	Seq. ID	OJ000251_26.0323.C6
Gene No.	96296	Strand	-
Start	10299	End	20766
Name	OJ000251_26.0323.C6.o5.gs	Method	GENSCAN
Start	10299	End	18744
GI	none	Score	.56
Exons	10299..10873, 11895..11982, 13576..13790, 14452..14825, 14989..15172, 15576..15637, 15872..15893, 15938..16093, 16131..16295, 17289..17317, 17734..17865, 17943..18061,		

18269..18405, 18690..18744

Seq. No.	45525	Seq. ID	OJ000251_26.0323.C6
Gene No.	96296	Strand	-
Start	10299	End	20766
Name	OJ000251_26.0323.C6.o2.np	Method	AAT/NAP
Start	11444	End	11572
GI	130582	Score	44
Exons	11444..11572		
GI Descrip.	RETROVIRUS-RELATED POL POLYPROTEIN FROM TRANSPOSON TNT 1-94 [CONTAINS: PROTEASE ; REVERSE TRANSCRIPTASE ; ENDONUCLEASE] gi 100342 pir  S04273 hypothetical protein - common tobacco gi 20045 emb CAA32025  (X13777) ORF [Nicotiana tabacum]		

Seq. No.	45525	Seq. ID	OJ000251_26.0323.C6
Gene No.	96296	Strand	-
Start	10299	End	20766
Name	OJ000251_26.0323.C6.o3.np	Method	AAT/NAP
Start	13937	End	20766
GI	125065	Score	137
Exons	13937..14148, 15055..15151, 20734..20766		
GI Descrip.	60 KD JASMONATE-INDUCED PROTEIN gi 419795 pir  S25092 jasmonate-induced protein - barley gi 19011 emb CAA47017  (X66376) jasmonate-induced protein [Hordeum vulgare]		

Seq. No.	45525	Seq. ID	OJ000251_26.0323.C6
Gene No.	96296	Strand	-
Start	10299	End	20766
Name	OJ000251_26.0323.C6.o4.np	Method	AAT/NAP
Start	15974	End	20766
GI	4544372	Score	221
Exons	15974..16600, 17044..17067, 20741..20766		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	45526	Seq. ID	OJ000251_26.0323.C7
Gene No.	96297	Strand	+
Start	3009	End	6635
Name	OJ000251_26.0323.C7.o1.gs	Method	GENSCAN
Start	3009	End	6635
GI	none	Score	.92
Exons	3009..4337, 4609..5185, 5359..5459, 6618..6635		

Seq. No.	45526	Seq. ID	OJ000251_26.0323.C7
Gene No.	96298	Strand	+
Start	7451	End	8635
Name	OJ000251_26.0323.C7.o2.gs	Method	GENSCAN
Start	7451	End	8635
GI	none	Score	.52
Exons	7451..7527, 7778..7975, 8440..8635		

Seq. No.	45526	Seq. ID	OJ000251_26.0323.C7
Gene No.	96299	Strand	+
Start	15114	End	16465
Name	OJ000251_26.0323.C7.o5.gs	Method	GENSCAN
Start	15114	End	16465
GI	none	Score	.76

Exons	15114..15173, 15255..15329, 15961..16176, 16188..16264, 16360..16465		
Seq. No.	45526	Seq. ID	OJ000251_26.0323.C7
Gene No.	96300	Strand	-
Start	9651	End	10910
Name	OJ000251_26.0323.C7.o3.tm	Method	TBLASTX:Maize
Start	9354	End	9759
GI	none	Score	86
Exons	9354..9419, 9361..9420, 9364..9489, 9375..9593, 9467..9517, 9538..9564, 9650..9733, 9651..9746, 9651..9749, 9652..9759		
Seq. No.	45526	Seq. ID	OJ000251_26.0323.C7
Gene No.	96300	Strand	-
Start	9651	End	10910
Name	OJ000251_26.0323.C7.o1.gp	Method	AAT/GAP
Start	9430	End	9711
GI	none	Score	448
Exons	9430..9711		
Seq. No.	45526	Seq. ID	OJ000251_26.0323.C7
Gene No.	96300	Strand	-
Start	9651	End	10910
Name	OJ000251_26.0323.C7.o3.gs	Method	GENSCAN
Start	9651	End	10910
GI	none	Score	.99
Exons	9651..10910		
Seq. No.	45526	Seq. ID	OJ000251_26.0323.C7
Gene No.	96300	Strand	-
Start	9651	End	10910
Name	OJ000251_26.0323.C7.o1.np	Method	AAT/NAP
Start	9669	End	10910
GI	6730709	Score	783
Exons	9669..10226, 10272..10847, 10884..10910		
GI Descrip.	(AC011809) Unknown protein [Arabidopsis thaliana]		
Seq. No.	45526	Seq. ID	OJ000251_26.0323.C7
Gene No.	96300	Strand	-
Start	9651	End	10910
Name	OJ000251_26.0323.C7.o2.ts	Method	TBLASTX:Soybean
Start	9678	End	9950
GI	none	Score	60
Exons	9678..9749, 9682..9750, 9819..9950, 9868..9909		
Seq. No.	45526	Seq. ID	OJ000251_26.0323.C7
Gene No.	96300	Strand	-
Start	9651	End	10910
Name	OJ000251_26.0323.C7.o2.tm	Method	TBLASTX:Maize
Start	10062	End	10338
GI	none	Score	140
Exons	10062..10205, 10067..10171, 10084..10224, 10089..10187, 10273..10338		
Seq. No.	45526	Seq. ID	OJ000251_26.0323.C7
Gene No.	96300	Strand	-
Start	9651	End	10910

Name	OJ000251_26.0323.C7.o1.ts	Method	TBLASTX:Soybean
Start	10125	End	10700
GI	none	Score	95
Exons	10125..10187, 10156..10221, 10407..10580, 10632..10700		

Seq. No.	45526	Seq. ID	OJ000251_26.0323.C7
Gene No.	96300	Strand	-
Start	9651	End	10910
Name	OJ000251_26.0323.C7.o1.tm	Method	TBLASTX:Maize
Start	10401	End	10760
GI	none	Score	65
Exons	10401..10466, 10407..10451, 10440..10580, 10441..10572, 10632..10706, 10707..10760		

Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96301	Strand	+
Start	11810	End	17243
Name	OJ000251_26.0323.C8.o3.gs	Method	GENSCAN
Start	11810	End	17146
GI	none	Score	.46
Exons	11810..11900, 12295..12489, 12760..12946, 13026..13422, 14100..14203, 14281..14406, 14600..15176, 15389..15485, 15642..16227, 16345..17146		

Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96301	Strand	+
Start	11810	End	17243
Name	OJ000251_26.0323.C8.o3.np	Method	AAT/NAP
Start	15271	End	17243
GI	6466937	Score	826
Exons	15271..17243		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96302	Strand	-
Start	2410	End	8118
Name	OJ000251_26.0323.C8.o1.gs	Method	GENSCAN
Start	2410	End	8118
GI	none	Score	.59
Exons	2410..3163, 3262..3394, 4902..4989, 5183..5516, 6092..6290, 8049..8118		

Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96302	Strand	-
Start	2410	End	8118
Name	OJ000251_26.0323.C8.o1.np	Method	AAT/NAP
Start	2413	End	5530
GI	5777631	Score	1234
Exons	2413..3163, 3262..3394, 4902..4989, 5183..5530		
GI Descrip.	(AJ245900) CAA303719.1 protein [Oryza sativa]		

Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96303	Strand	-
Start	8409	End	13383
Name	OJ000251_26.0323.C8.o1.tm	Method	TBLASTX:Maize
Start	2402	End	3302

GI	none	Score	146
Exons	2402..2548, 2410..2541, 2417..2563, 2609..2692, 2611..2745, 2612..2746, 2787..2852, 2788..2838, 2831..3067, 2890..3066, 2937..3089, 3061..3165, 3125..3178, 3261..3302		

Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96303	Strand	-
Start	8409	End	13383
Name	OJ000251_26.0323.C8.o1.tc	Method	TBLASTX:Cress
Start	2407	End	2961
GI	none	Score	49
Exons	2407..2544, 2408..2548, 2410..2547, 2608..2721, 2611..2745, 2615..2767, 2768..2887, 2890..2961, 2900..2953		

Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96303	Strand	-
Start	8409	End	13383
Name	OJ000251_26.0323.C8.o2.ts	Method	TBLASTX:Soybean
Start	2407	End	2761
GI	none	Score	103
Exons	2407..2544, 2407..2547, 2411..2548, 2417..2563, 2558..2731, 2592..2747, 2611..2760, 2621..2761		

Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96303	Strand	-
Start	8409	End	13383
Name	OJ000251_26.0323.C8.o5.tw	Method	TBLASTX:Wheat
Start	2410	End	2544
GI	none	Score	144
Exons	2410..2544, 2411..2536, 2413..2544		

Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96303	Strand	-
Start	8409	End	13383
Name	OJ000251_26.0323.C8.o4.tw	Method	TBLASTX:Wheat
Start	2611	End	2731
GI	none	Score	161
Exons	2611..2730, 2612..2731		

Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96303	Strand	-
Start	8409	End	13383
Name	OJ000251_26.0323.C8.o6.tw	Method	TBLASTX:Wheat
Start	2779	End	13383
GI	none	Score	114
Exons	2779..2814, 2828..3025, 2869..3048, 2890..3048, 13342..13383		

Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96303	Strand	-
Start	8409	End	13383
Name	OJ000251_26.0323.C8.o1.ts	Method	TBLASTX:Soybean
Start	2899	End	5536
GI	none	Score	165
Exons	2899..3165, 2900..3178, 3261..3386, 3261..3401, 3262..3396, 4910..4993, 4930..4992, 5183..5536, 5184..5531		

Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
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Gene No.	96303	Strand	-
Start	8409	End	13383
Name	OJ000251_26.0323.C8.o2.tc	Method	TBLASTX:Cress
Start	2962	End	3401
GI	none	Score	68
Exons	2962..3087, 2963..3067, 3098..3178, 3106..3165, 3261..3395, 3261..3401, 3262..3396		

Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96303	Strand	-
Start	8409	End	13383
Name	OJ000251_26.0323.C8.o3.tc	Method	TBLASTX:Cress
Start	4913	End	5531
GI	none	Score	85
Exons	4913..5017, 4930..5001, 5183..5245, 5184..5246, 5243..5392, 5247..5384, 5420..5530, 5424..5531		

Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96303	Strand	-
Start	8409	End	13383
Name	OJ000251_26.0323.C8.o1.tw	Method	TBLASTX:Wheat
Start	5202	End	5536
GI	none	Score	414
Exons	5202..5534, 5204..5536, 5207..5536		

Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96303	Strand	-
Start	8409	End	13383
Name	OJ000251_26.0323.C8.o4.tm	Method	TBLASTX:Maize
Start	5267	End	5563
GI	none	Score	284
Exons	5267..5563, 5268..5534		

Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96303	Strand	-
Start	8409	End	13383
Name	OJ000251_26.0323.C8.o1.gp	Method	AAT/GAP
Start	8409	End	10070
GI	3761970	Score	1049
Exons	8409..8690, 9801..10070		

Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96303	Strand	-
Start	8409	End	13383
Name	OJ000251_26.0323.C8.o2.np	Method	AAT/NAP
Start	9823	End	11082
GI	6143872	Score	487
Exons	9823..10124, 10207..11082		
GI Descrip.	(AC010927) unknown protein [Arabidopsis thaliana]		

Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96303	Strand	-
Start	8409	End	13383
Name	OJ000251_26.0323.C8.o5.tm	Method	TBLASTX:Maize
Start	9831	End	10045
GI	none	Score	47
Exons	9831..10037, 9834..9935, 9835..10041, 9875..10045, 9976..10038		



Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96303	Strand	-
Start	8409	End	13383
Name	OJ000251_26.0323.C8.o2.gs	Method	GENSCAN
Start	9835	End	11142
GI	none	Score	.9
Exons	9835..11142		

Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96303	Strand	-
Start	8409	End	13383
Name	OJ000251_26.0323.C8.o5.ts	Method	TBLASTX:Soybean
Start	9877	End	10560
GI	none	Score	42
Exons	9877..10065, 10281..10313, 10347..10511, 10348..10512, 10396..10509, 10489..10560		

Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96303	Strand	-
Start	8409	End	13383
Name	OJ000251_26.0323.C8.o8.tm	Method	TBLASTX:Maize
Start	10118	End	10437
GI	none	Score	65
Exons	10118..10195, 10132..10200, 10210..10257, 10218..10307, 10220..10258, 10320..10424, 10320..10436, 10327..10437, 10336..10437		

Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96303	Strand	-
Start	8409	End	13383
Name	OJ000251_26.0323.C8.o3.tw	Method	TBLASTX:Wheat
Start	10335	End	10681
GI	none	Score	105
Exons	10335..10445, 10335..10514, 10336..10515, 10348..10515, 10423..10674, 10512..10652, 10513..10674, 10544..10681		

Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96303	Strand	-
Start	8409	End	13383
Name	OJ000251_26.0323.C8.o3.tm	Method	TBLASTX:Maize
Start	10438	End	10816
GI	none	Score	150
Exons	10438..10728, 10438..10722, 10726..10815, 10727..10816		

Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96303	Strand	-
Start	8409	End	13383
Name	OJ000251_26.0323.C8.o3.ts	Method	TBLASTX:Soybean
Start	10561	End	10798
GI	none	Score	95
Exons	10561..10797, 10562..10702, 10733..10798		

Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96303	Strand	-
Start	8409	End	13383
Name	OJ000251_26.0323.C8.o2.gp	Method	AAT/GAP

Start	10683	End	13203
GI	none	Score	1208
Exons	10683..11233, 13085..13203		
Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96303	Strand	-
Start	8409	End	13383
Name	OJ000251_26.0323.C8.o7.tm	Method	TBLASTX:Maize
Start	10818	End	11234
GI	none	Score	47
Exons	10818..10841, 10820..10840, 10822..10893, 10907..10963, 10913..11092, 10914..11123, 10959..11108, 10960..11124, 10966..11127, 10970..11128, 11122..11193, 11124..11201, 11125..11193, 11133..11234		
Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96304	Strand	
Start	16166	End	16498
Name	OJ000251_26.0323.C8.o6.tm	Method	TBLASTX:Maize
Start	16166	End	16498
GI	none	Score	234
Exons	16166..16498, 16253..16444		
Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96305	Strand	
Start	16610	End	17197
Name	OJ000251_26.0323.C8.o2.tm	Method	TBLASTX:Maize
Start	16610	End	17094
GI	none	Score	546
Exons	16610..17092, 16624..16911, 16730..17035, 16984..17094		
Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96305	Strand	
Start	16610	End	17197
Name	OJ000251_26.0323.C8.o2.tw	Method	TBLASTX:Wheat
Start	16715	End	17197
GI	none	Score	388
Exons	16715..17197, 16726..17154, 16835..17194		
Seq. No.	45527	Seq. ID	OJ000251_26.0323.C8
Gene No.	96305	Strand	
Start	16610	End	17197
Name	OJ000251_26.0323.C8.o4.ts	Method	TBLASTX:Soybean
Start	16751	End	17065
GI	none	Score	236
Exons	16751..17065, 16865..17059		
Seq. No.	45528	Seq. ID	OJ000251_26.0323.C9
Gene No.	96306	Strand	+
Start	1	End	3323
Name	OJ000251_26.0323.C9.o1.np	Method	AAT/NAP
Start	1	End	3323
GI	6466937	Score	1160
Exons	1..1302, 2338..2380, 2655..3323		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	45528	Seq. ID	OJ000251_26.0323.C9
Gene No.	96307	Strand	-
Start	69	End	3297
Name	OJ000251_26.0323.C9.o2.tm	Method	TBLASTX:Maize
Start	1	End	457
GI	none	Score	347
Exons	1..309, 6..308, 314..457, 349..426		

Seq. No.	45528	Seq. ID	OJ000251_26.0323.C9
Gene No.	96307	Strand	-
Start	69	End	3297
Name	OJ000251_26.0323.C9.o4.tw	Method	TBLASTX:Wheat
Start	1	End	288
GI	none	Score	200
Exons	1..288, 12..167		

Seq. No.	45528	Seq. ID	OJ000251_26.0323.C9
Gene No.	96307	Strand	-
Start	69	End	3297
Name	OJ000251_26.0323.C9.o2.ts	Method	TBLASTX:Soybean
Start	40	End	294
GI	none	Score	219
Exons	40..294, 66..245		

Seq. No.	45528	Seq. ID	OJ000251_26.0323.C9
Gene No.	96307	Strand	-
Start	69	End	3297
Name	OJ000251_26.0323.C9.o1.gs	Method	GENSCAN
Start	69	End	3176
GI	none	Score	.42
Exons	69..220, 229..353, 501..639, 1578..1626, 1895..2042, 2501..2629, 2694..2876, 2985..3176		

Seq. No.	45528	Seq. ID	OJ000251_26.0323.C9
Gene No.	96307	Strand	-
Start	69	End	3297
Name	OJ000251_26.0323.C9.o4.tm	Method	TBLASTX:Maize
Start	467	End	691
GI	none	Score	181
Exons	467..691, 506..655, 574..669		

Seq. No.	45528	Seq. ID	OJ000251_26.0323.C9
Gene No.	96307	Strand	-
Start	69	End	3297
Name	OJ000251_26.0323.C9.o3.tw	Method	TBLASTX:Wheat
Start	470	End	824
GI	none	Score	198
Exons	470..697, 470..679, 580..696, 711..824, 767..823		

Seq. No.	45528	Seq. ID	OJ000251_26.0323.C9
Gene No.	96307	Strand	-
Start	69	End	3297
Name	OJ000251_26.0323.C9.o1.ts	Method	TBLASTX:Soybean
Start	693	End	1064
GI	none	Score	345
Exons	693..1064, 710..1063		

Seq. No.	45528	Seq. ID	OJ000251_26.0323.C9
Gene No.	96307	Strand	-
Start	69	End	3297
Name	OJ000251_26.0323.C9.o1.tm	Method	TBLASTX:Maize
Start	711	End	1292
GI	none	Score	729
Exons	711..1292, 744..1262, 767..1291		

Seq. No.	45528	Seq. ID	OJ000251_26.0323.C9
Gene No.	96307	Strand	-
Start	69	End	3297
Name	OJ000251_26.0323.C9.o2.tw	Method	TBLASTX:Wheat
Start	912	End	1304
GI	none	Score	296
Exons	912..1304, 1004..1291		

Seq. No.	45528	Seq. ID	OJ000251_26.0323.C9
Gene No.	96307	Strand	-
Start	69	End	3297
Name	OJ000251_26.0323.C9.o3.tm	Method	TBLASTX:Maize
Start	2476	End	3297
GI	none	Score	122
Exons	2476..2652, 2506..2619, 2544..2651, 2669..2968, 2698..2958, 3059..3244, 3085..3213, 3086..3241, 3254..3295, 3268..3297		

Seq. No.	45528	Seq. ID	OJ000251_26.0323.C9
Gene No.	96307	Strand	-
Start	69	End	3297
Name	OJ000251_26.0323.C9.o1.tw	Method	TBLASTX:Wheat
Start	2503	End	3011
GI	none	Score	53
Exons	2503..2673, 2504..2614, 2533..2652, 2669..2968, 2693..2968, 2766..3011, 2829..2981		

Seq. No.	45529	Seq. ID	OJ000251_26.0323.C11
Gene No.	96308	Strand	-
Start	1	End	2296
Name	OJ000251_26.0323.C11.o1.gp	Method	AAT/GAP
Start	1	End	885
GI	305_2.R1084	Score	1451
Exons	1..316, 407..885		
GI Descrip.	'4139264 1.0e-83 (AF111812) actin [Brassica napus]'		

Seq. No.	45529	Seq. ID	OJ000251_26.0323.C11
Gene No.	96308	Strand	-
Start	1	End	2296
Name	OJ000251_26.0323.C11.o1.gs	Method	GENSCAN
Start	251	End	1645
GI	none	Score	.95
Exons	251..1020, 1095..1488, 1586..1645		

Seq. No.	45529	Seq. ID	OJ000251_26.0323.C11
Gene No.	96308	Strand	-
Start	1	End	2296
Name	OJ000251_26.0323.C11.o1.np	Method	AAT/NAP
Start	254	End	1645
GI	1703108	Score	1841

Exons 254..316, 407..1020, 1095..1488, 1586..1645  
 GI Descrip. ACTIN 2/7 gi|2129525|pir||S71210 actin 2 - Arabidopsis thaliana  
 gi|2129528|pir||S68107 actin 7 - Arabidopsis thaliana gi|1049307  
 (U37281) actin-2 [Arabidopsis thaliana] gi|1943863 (U27811)  
 actin7 [Arabidopsis thaliana]

Seq. No. 45529 Seq. ID OJ000251\_26.0323.C11  
 Gene No. 96308 Strand -  
 Start 1 End 2296  
 Name OJ000251\_26.0323.C11.o2.gp Method AAT/GAP  
 Start 757 End 1684  
 GI 305\_3.R1084 Score 868  
 Exons 757..1020, 1095..1488, 1586..1684  
 GI Descrip. '1531674 1.0e-97 (U68462) actin [Striga asiatica]'

Seq. No. 45529 Seq. ID OJ000251\_26.0323.C11  
 Gene No. 96308 Strand -  
 Start 1 End 2296  
 Name OJ000251\_26.0323.C11.o3.gp Method AAT/GAP  
 Start 1278 End 2296  
 GI 59728\_1.R1084 Score 745  
 Exons 1278..1488, 1586..1668, 2185..2296  
 GI Descrip. '5230841/gb|AAD41039.1|AF112538\_1 7.0e-31 (AF112538) actin  
 [Malva pusilla]'

Seq. No. 45529 Seq. ID OJ000251\_26.0323.C11  
 Gene No. 96309 Strand -  
 Start 3821 End 4589  
 Name OJ000251\_26.0323.C11.o2.gs Method GENSCAN  
 Start 3821 End 4589  
 GI none Score .81  
 Exons 3821..3943, 4509..4589

Seq. No. 45529 Seq. ID OJ000251\_26.0323.C11  
 Gene No. 96310 Strand -  
 Start 5334 End 5412  
 Name OJ000251\_26.0323.C11.o5.gp Method AAT/GAP  
 Start 5334 End 5412  
 GI LIB3477-003-P1-K1-E9 Score 123  
 Exons 5334..5412  
 GI Descrip. '2498586/sp|Q40638|MPO1\_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY  
 S 1 PRECURSOR (ORY S I) >gi\_1173557 (U31771) Ory s 1 [Oryza  
 sativa]'

Seq. No. 45529 Seq. ID OJ000251\_26.0323.C11  
 Gene No. 96311 Strand -  
 Start 7032 End 13453  
 Name OJ000251\_26.0323.C11.o1.ts Method TBLASTX:Soybean  
 Start 207 End 1648  
 GI none Score 99  
 Exons 207..317, 242..334, 246..320, 380..1021, 408..905, 919..1020,  
 963..1031, 1082..1489, 1093..1491, 1093..1491, 1574..1627,  
 1575..1607, 1610..1648

Seq. No. 45529 Seq. ID OJ000251\_26.0323.C11  
 Gene No. 96311 Strand -  
 Start 7032 End 13453

Name	OJ000251_26.0323.C11.o2.tw	Method	TBLASTX:Wheat
Start	245	End	733
GI	none	Score	57
Exons	245..319, 245..334, 246..320, 380..733, 404..712, 408..731		

Seq. No.	45529	Seq. ID	OJ000251_26.0323.C11
Gene No.	96311	Strand	-
Start	7032	End	13453
Name	OJ000251_26.0323.C11.o1.tc	Method	TBLASTX:Cress
Start	251	End	1645
GI	none	Score	97
Exons	251..334, 252..320, 380..1021, 408..902, 408..1022, 730..1050, 928..1020, 963..1031, 1082..1489, 1093..1491, 1093..1491, 1570..1644, 1574..1645, 1575..1631, 1586..1645		

Seq. No.	45529	Seq. ID	OJ000251_26.0323.C11
Gene No.	96311	Strand	-
Start	7032	End	13453
Name	OJ000251_26.0323.C11.o1.tm	Method	TBLASTX:Maize
Start	251	End	1699
GI	none	Score	96
Exons	251..319, 251..334, 380..1021, 406..1068, 408..905, 966..1031, 1082..1489, 1093..1491, 1093..1491, 1573..1692, 1575..1646, 1586..1699		

Seq. No.	45529	Seq. ID	OJ000251_26.0323.C11
Gene No.	96311	Strand	-
Start	7032	End	13453
Name	OJ000251_26.0323.C11.o3.tw	Method	TBLASTX:Wheat
Start	734	End	1065
GI	none	Score	160
Exons	734..1021, 735..905, 737..1024, 739..1065, 963..1031		

Seq. No.	45529	Seq. ID	OJ000251_26.0323.C11
Gene No.	96311	Strand	-
Start	7032	End	13453
Name	OJ000251_26.0323.C11.o1.tw	Method	TBLASTX:Wheat
Start	1082	End	1491
GI	none	Score	504
Exons	1082..1489, 1093..1491, 1093..1491		

Seq. No.	45529	Seq. ID	OJ000251_26.0323.C11
Gene No.	96311	Strand	-
Start	7032	End	13453
Name	OJ000251_26.0323.C11.o3.gs	Method	GENSCAN
Start	7032	End	13334
GI	none	Score	.78
Exons	7032..7121, 7695..7837, 8249..8390, 8476..8796, 9220..9437, 9501..9824, 10138..10568, 10614..10857, 10881..11035, 11111..11264, 11800..12935, 13009..13334		

Seq. No.	45529	Seq. ID	OJ000251_26.0323.C11
Gene No.	96311	Strand	-
Start	7032	End	13453
Name	OJ000251_26.0323.C11.o6.gp	Method	AAT/GAP
Start	9808	End	10254
GI	LIB3433-020-P1-K1-A6	Score	682

Exons 9808..10254  
 GI Descrip. '5670155/gb|AF161269.1|AF161269 2.0e-35 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'

Seq. No.	45529	Seq. ID	OJ000251_26.0323.C11
Gene No.	96311	Strand	-
Start	7032	End	13453
Name	OJ000251_26.0323.C11.o5.tw	Method	TBLASTX:Wheat
Start	10762	End	10944
GI	none	Score	108
Exons	10762..10881, 10763..10897, 10880..10930, 10891..10944		

Seq. No.	45529	Seq. ID	OJ000251_26.0323.C11
Gene No.	96311	Strand	-
Start	7032	End	13453
Name	OJ000251_26.0323.C11.o2.np	Method	AAT/NAP
Start	11173	End	13453
GI	7228442	Score	1956
Exons	11173..11352, 11761..13453		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	45529	Seq. ID	OJ000251_26.0323.C11
Gene No.	96311	Strand	-
Start	7032	End	13453
Name	OJ000251_26.0323.C11.o4.tw	Method	TBLASTX:Wheat
Start	12701	End	13079
GI	none	Score	61
Exons	12701..12874, 12712..12846, 12807..12875, 12899..12988, 12924..12989, 12993..13076, 12996..13079		

Seq. No.	45529	Seq. ID	OJ000251_26.0323.C11
Gene No.	96311	Strand	-
Start	7032	End	13453
Name	OJ000251_26.0323.C11.o2.tm	Method	TBLASTX:Maize
Start	12894	End	13373
GI	none	Score	42
Exons	12894..12989, 12905..12991, 12990..13154, 12993..13373, 12997..13326		

Seq. No.	45530	Seq. ID	OJ000251_26.0323.C12
Gene No.	96312	Strand	-
Start	1	End	964
Name	OJ000251_26.0323.C12.o1.np	Method	AAT/NAP
Start	1	End	964
GI	7228442	Score	891
Exons	1..964		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	45530	Seq. ID	OJ000251_26.0323.C12
Gene No.	96313	Strand	-
Start	4340	End	5294
Name	OJ000251_26.0323.C12.o3.gs	Method	GENSCAN
Start	4340	End	5294

GI	none	Score	.76
Exons	4340..4485, 5117..5294		
Seq. No.	45531	Seq. ID	OJ000251_26.0323.C13
Gene No.	96314	Strand	-
Start	3082	End	4221
Name	OJ000251_26.0323.C13.o1.gp	Method	AAT/GAP
Start	329	End	470
GI	LIB3477-003-P1-K1-E9	Score	91
Exons	329..352, 414..470		
GI Descrip.	'2498586/sp Q40638 MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	45531	Seq. ID	OJ000251_26.0323.C13
Gene No.	96314	Strand	-
Start	3082	End	4221
Name	OJ000251_26.0323.C13.o1.gs	Method	GENSCAN
Start	3082	End	4221
GI	none	Score	.96
Exons	3082..3196, 3662..3820, 3848..3995, 4080..4221		

Seq. No.	45531	Seq. ID	OJ000251_26.0323.C13
Gene No.	96315	Strand	-
Start	4622	End	5731
Name	OJ000251_26.0323.C13.o2.gs	Method	GENSCAN
Start	4622	End	5731
GI	none	Score	.4
Exons	4622..4675, 5126..5268, 5350..5443, 5630..5731		

Seq. No.	45532	Seq. ID	OJ000251_26.0323.C14
Gene No.	96316	Strand	+
Start	32	End	3013
Name	OJ000251_26.0323.C14.o1.gs	Method	GENSCAN
Start	32	End	3013
GI	none	Score	.72
Exons	32..112, 737..773, 1000..1171, 1210..1459, 1708..1749, 2963..3013		

Seq. No.	45533	Seq. ID	OJ000121_12.0309.C2
Gene No.	96317	Strand	+
Start	1262	End	1708
Name	OJ000121_12.0309.C2.o1.gp	Method	AAT/GAP
Start	1262	End	1708
GI	71481_1.R1084	Score	733
Exons	1262..1708		
GI Descrip.	'3660464/emb AJ001753 ATI134T 1.0e-20 Arabidopsis thaliana mRNA for Inositol 1,3,4-Trisphosphate 5/6 Kinase'		

Seq. No.	45533	Seq. ID	OJ000121_12.0309.C2
Gene No.	96318	Strand	+
Start	1915	End	2355
Name	OJ000121_12.0309.C2.o2.gp	Method	AAT/GAP
Start	1915	End	2355
GI	6024955	Score	784
Exons	1915..2355		



Seq. No.	45533	Seq. ID	OJ000121_12.0309.C2
Gene No.	96319	Strand	-
Start	2399	End	3422
Name	OJ000121_12.0309.C2.o1.tm	Method	TBLASTX:Maize
Start	2036	End	3414
GI	none	Score	71
Exons	2036..2083, 2068..2151, 2069..2164, 2085..2198, 2242..2373, 2249..2542, 2250..2405, 2507..2638, 2532..2633, 2536..2634, 2627..2806, 2684..2806, 3183..3344, 3183..3413, 3184..3414		

Seq. No.	45533	Seq. ID	OJ000121_12.0309.C2
Gene No.	96319	Strand	-
Start	2399	End	3422
Name	OJ000121_12.0309.C2.o3.gp	Method	AAT/GAP
Start	2399	End	3311
GI	3759642	Score	1027
Exons	2399..2800, 3186..3311		

Seq. No.	45533	Seq. ID	OJ000121_12.0309.C2
Gene No.	96319	Strand	-
Start	2399	End	3422
Name	OJ000121_12.0309.C2.o1.ts	Method	TBLASTX:Soybean
Start	2714	End	3422
GI	none	Score	80
Exons	2714..2806, 2721..2801, 3183..3422		

Seq. No.	45534	Seq. ID	OJ000121_12.0309.C6
Gene No.	96320	Strand	+
Start	742	End	1762
Name	OJ000121_12.0309.C6.o1.tm	Method	TBLASTX:Maize
Start	203	End	1762
GI	none	Score	175
Exons	203..403, 213..416, 233..403, 243..407, 805..921, 807..917, 815..928, 815..919, 1634..1759, 1639..1761, 1640..1762		

Seq. No.	45534	Seq. ID	OJ000121_12.0309.C6
Gene No.	96320	Strand	+
Start	742	End	1762
Name	OJ000121_12.0309.C6.o1.tc	Method	TBLASTX:Cress
Start	266	End	1762
GI	none	Score	126
Exons	266..346, 267..347, 330..488, 344..400, 805..921, 816..917, 1639..1761, 1640..1762		

Seq. No.	45534	Seq. ID	OJ000121_12.0309.C6
Gene No.	96320	Strand	+
Start	742	End	1762
Name	OJ000121_12.0309.C6.o1.gp	Method	AAT/GAP
Start	742	End	1212
GI	uC-osflm202113a05b1	Score	808
Exons	742..1212		
GI Descrip.	'3128218 7.0e-12 (AC004077) putative end13 protein [Arabidopsis thaliana]'		

Seq. No.	45535	Seq. ID	OJ000121_12.0309.C9
Gene No.	96321	Strand	-
Start	1776	End	1997

Name	OJ000121_12.0309.C9.o1.gp	Method	AAT/GAP
Start	1776	End	1997
GI	LIB3477-003-P1-K1-E9	Score	154
Exons	1776..1800, 1913..1997		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	45536	Seq. ID	OJ000121_12.0309.C13
Gene No.	96322	Strand	-
Start	1483	End	1734
Name	OJ000121_12.0309.C13.o1.ts	Method	TBLASTX:Soybean
Start	592	End	1734
GI	none	Score	107
Exons	592..657, 593..661, 594..668, 1423..1590, 1460..1588, 1476..1616, 1478..1591, 1672..1734, 1683..1733		

Seq. No.	45536	Seq. ID	OJ000121_12.0309.C13
Gene No.	96322	Strand	-
Start	1483	End	1734
Name	OJ000121_12.0309.C13.o1.tm	Method	TBLASTX:Maize
Start	593	End	1734
GI	none	Score	99
Exons	593..661, 594..668, 1476..1589, 1476..1586, 1478..1588, 1683..1733, 1684..1734		

Seq. No.	45536	Seq. ID	OJ000121_12.0309.C13
Gene No.	96322	Strand	-
Start	1483	End	1734
Name	OJ000121_12.0309.C13.o1.gp	Method	AAT/GAP
Start	1483	End	1734
GI	50029_1.R1084	Score	216
Exons	1483..1586, 1684..1734		
GI Descrip.	'3128218 1.0e-09 (AC004077) putative end13 protein [Arabidopsis thaliana]'		

Seq. No.	45537	Seq. ID	OJ000121_12.0309.C14
Gene No.	96323	Strand	-
Start	356	End	1036
Name	OJ000121_12.0309.C14.o1.gp	Method	AAT/GAP
Start	356	End	1036
GI	50029_1.R1084	Score	758
Exons	356..423, 533..727, 869..1036		
GI Descrip.	'3128218 1.0e-09 (AC004077) putative end13 protein [Arabidopsis thaliana]'		

Seq. No.	45537	Seq. ID	OJ000121_12.0309.C14
Gene No.	96324	Strand	-
Start	2886	End	5423
Name	OJ000121_12.0309.C14.o1.tm	Method	TBLASTX:Maize
Start	2871	End	4687
GI	none	Score	123
Exons	2871..3038, 2915..3040, 2925..3035, 2938..3036, 3050..3094, 3051..3086, 3084..3152, 3084..3158, 3088..3159, 3155..3190, 3157..3195, 3158..3202, 3279..3392, 3281..3385, 3286..3393, 3288..3404, 3642..3716, 3643..3717, 3644..3718, 3679..3723, 3792..3839, 3797..3838, 4623..4679, 4625..4687, 4626..4685		

Seq. No.	45537	Seq. ID	OJ000121_12.0309.C14
Gene No.	96324	Strand	-
Start	2886	End	5423
Name	OJ000121_12.0309.C14.o2.gp	Method	AAT/GAP
Start	2886	End	5423
GI	3898_1.R1084	Score	1205
Exons	2886..3194, 3286..3383, 3642..3715, 3795..3836, 4626..4684, 5335..5423		
GI Descrip.	'5381319/gb AAD42941.1 AF091621_1 5.0e-81 (AF091621) ubiquitin-conjugating enzyme E2 [Catharanthus roseus]'		

Seq. No.	45537	Seq. ID	OJ000121_12.0309.C14
Gene No.	96324	Strand	-
Start	2886	End	5423
Name	OJ000121_12.0309.C14.o1.tw	Method	TBLASTX:Wheat
Start	3068	End	5417
GI	none	Score	50
Exons	3068..3118, 3072..3113, 3157..3195, 3158..3202, 3264..3392, 3281..3385, 3286..3408, 3642..3716, 3644..3718, 3644..3688, 3646..3717, 3787..3837, 3792..3839, 4623..4679, 4630..4707, 4631..4708, 5331..5414, 5333..5416, 5334..5417		

Seq. No.	45537	Seq. ID	OJ000121_12.0309.C14
Gene No.	96324	Strand	-
Start	2886	End	5423
Name	OJ000121_12.0309.C14.o1.tc	Method	TBLASTX:Cress
Start	3155	End	5423
GI	none	Score	51
Exons	3155..3202, 3157..3195, 3279..3392, 3281..3466, 3641..3688, 3642..3716, 3678..3716, 3787..3837, 3792..3839, 4623..4679, 5333..5422, 5334..5423		

Seq. No.	45537	Seq. ID	OJ000121_12.0309.C14
Gene No.	96324	Strand	-
Start	2886	End	5423
Name	OJ000121_12.0309.C14.o1.ts	Method	TBLASTX:Soybean
Start	3157	End	4667
GI	none	Score	55
Exons	3157..3198, 3161..3199, 3279..3410, 3284..3385, 3285..3410, 3642..3716, 3644..3718, 3644..3688, 3789..3839, 3792..3839, 4623..4667		

Seq. No.	45538	Seq. ID	OJ000121_12.0309.C15
Gene No.	96325	Strand	+
Start	4652	End	4848
Name	OJ000121_12.0309.C15.o1.gp	Method	AAT/GAP
Start	4652	End	4848
GI	LIB3434-040-P1-K1-B11	Score	358
Exons	4652..4848		
GI Descrip.	'4996647/dbj AB028133.1 AB028133 5.0e-09 Oryza sativa mRNA for Dof zinc finger protein, complete cds'		

Seq. No.	45539	Seq. ID	OJ000121_12.0309.C16
Gene No.	96326	Strand	-
Start	930	End	1733
Name	OJ000121_12.0309.C16.o1.gp	Method	AAT/GAP

Start	930	End	1733
GI	jC-osleLIB3474037h04a1		Score
Exons	930..1436, 1539..1733		
GI Descrip.	'3746067 6.0e-22 (AC005311) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	45539	Seq. ID	OJ000121_12.0309.C16
Gene No.	96326	Strand	-
Start	930	End	1733
Name	OJ000121_12.0309.C16.o1.tm	Method	TBLASTX:Maize
Start	1262	End	1610
GI	none	Score	147
Exons	1262..1438, 1265..1432, 1266..1436, 1273..1437, 1538..1606, 1538..1609, 1542..1610		

Seq. No.	45539	Seq. ID	OJ000121_12.0309.C16
Gene No.	96326	Strand	-
Start	930	End	1733
Name	OJ000121_12.0309.C16.o1.tc	Method	TBLASTX:Cress
Start	1328	End	1609
GI	none	Score	77
Exons	1328..1435, 1334..1429, 1341..1436, 1530..1595, 1541..1609		

Seq. No.	45540	Seq. ID	OJ000121_12.0309.C21
Gene No.	96330	Strand	-
Start	267	End	738
Name	OJ000121_12.0309.C21.o1.tm	Method	TBLASTX:Maize
Start	210	End	484
GI	none	Score	117
Exons	210..353, 211..351, 213..353, 397..480, 398..484, 399..482		

Seq. No.	45540	Seq. ID	OJ000121_12.0309.C21
Gene No.	96330	Strand	-
Start	267	End	738
Name	OJ000121_12.0309.C21.o1.gp	Method	AAT/GAP
Start	267	End	738
GI	none	Score	920
Exons	267..738		

Seq. No.	45541	Seq. ID	OJ000121_12.0309.C23
Gene No.	96331	Strand	-
Start	295	End	742
Name	OJ000121_12.0309.C23.o1.tm	Method	TBLASTX:Maize
Start	295	End	742
GI	none	Score	36
Exons	295..312, 296..346, 303..329, 415..579, 421..579, 423..587, 700..741, 701..742		

Seq. No.	45542	Seq. ID	OJ000121_12.0309.C24
Gene No.	96332	Strand	-
Start	572	End	796
Name	OJ000121_12.0309.C24.o1.tm	Method	TBLASTX:Maize
Start	572	End	796
GI	none	Score	293
Exons	572..796, 591..794, 592..795		

Seq. No.	45543	Seq. ID	OJ000121_12.0309.C25
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Gene No.	96333	Strand	
Start	123	End	495
Name	OJ000121_12.0309.C25.o1.tm	Method	TBLASTX:Maize
Start	123	End	495
GI	none	Score	193
Exons	123..383, 127..414, 127..408, 388..489, 412..495		

Seq. No.	45544	Seq. ID	OJ000121_12.0309.C29
Gene No.	96334	Strand	+
Start	1	End	919
Name	OJ000121_12.0309.C29.o1.gp	Method	AAT/GAP
Start	1	End	919
GI	none	Score	1567
Exons	1..738, 837..919		

Seq. No.	45544	Seq. ID	OJ000121_12.0309.C29
Gene No.	96335	Strand	+
Start	1049	End	2254
Name	OJ000121_12.0309.C29.o2.gp	Method	AAT/GAP
Start	1049	End	2254
GI	30412_1.R1084	Score	1503
Exons	1049..1225, 1308..1382, 1482..1754, 1943..2254		
GI Descrip.	'4753658/emb CAB41934.1  1.0e-107 (AL049751) putative protein [Arabidopsis thaliana]'		

Seq. No.	45544	Seq. ID	OJ000121_12.0309.C29
Gene No.	96336	Strand	-
Start	2349	End	2911
Name	OJ000121_12.0309.C29.o3.gp	Method	AAT/GAP
Start	2349	End	2911
GI	37430_1.R1084	Score	1083
Exons	2349..2911		
GI Descrip.	'4753658/emb CAB41934.1  3.0e-13 (AL049751) putative protein [Arabidopsis thaliana]'		

Seq. No.	45544	Seq. ID	OJ000121_12.0309.C29
Gene No.	96337	Strand	-
Start	3573	End	3730
Name	OJ000121_12.0309.C29.o2.tm	Method	TBLASTX:Maize
Start	729	End	1191
GI	none	Score	38
Exons	729..803, 827..949, 833..952, 835..951, 1043..1186, 1054..1191, 1054..1176, 1067..1186, 1068..1190		

Seq. No.	45544	Seq. ID	OJ000121_12.0309.C29
Gene No.	96337	Strand	-
Start	3573	End	3730
Name	OJ000121_12.0309.C29.o2.ts	Method	TBLASTX:Soybean
Start	835	End	1586
GI	none	Score	148
Exons	835..951, 836..952, 1024..1185, 1055..1186, 1482..1586		

Seq. No.	45544	Seq. ID	OJ000121_12.0309.C29
Gene No.	96337	Strand	-
Start	3573	End	3730
Name	OJ000121_12.0309.C29.o3.tm	Method	TBLASTX:Maize
Start	1314	End	1673

GI	none	Score	85
Exons	1314..1412, 1314..1385, 1471..1659, 1475..1672, 1482..1673		
Seq. No.	45544	Seq. ID	OJ000121_12.0309.C29
Gene No.	96337	Strand	-
Start	3573	End	3730
Name	OJ000121_12.0309.C29.o1.tc	Method	TBLASTX:Cress
Start	1565	End	2074
GI	none	Score	195
Exons	1565..1753, 1566..1754, 1570..1755, 1940..2074		

Seq. No.	45544	Seq. ID	OJ000121_12.0309.C29
Gene No.	96337	Strand	-
Start	3573	End	3730
Name	OJ000121_12.0309.C29.o1.ts	Method	TBLASTX:Soybean
Start	1671	End	2251
GI	none	Score	106
Exons	1671..1754, 1924..2103, 1940..2113, 1940..2104, 2096..2251, 2098..2241		

Seq. No.	45544	Seq. ID	OJ000121_12.0309.C29
Gene No.	96337	Strand	-
Start	3573	End	3730
Name	OJ000121_12.0309.C29.o1.tm	Method	TBLASTX:Maize
Start	1674	End	2403
GI	none	Score	114
Exons	1674..1754, 1679..1750, 1924..2127, 1938..2129, 1940..2128, 1942..2130, 2128..2256, 2129..2251, 2140..2262, 2354..2392, 2355..2402, 2356..2403		

Seq. No.	45544	Seq. ID	OJ000121_12.0309.C29
Gene No.	96337	Strand	-
Start	3573	End	3730
Name	OJ000121_12.0309.C29.o4.gp	Method	AAT/GAP
Start	3573	End	3730
GI	4970_1.R1084	Score	256
Exons	3573..3730		
GI Descrip.	'4928472/gb AAD33602.1 AF133302_1 2.0e-69 (AF133302) type 2 peroxiredoxin [Brassica rapa subsp. pekinensis]'		

Seq. No.	45545	Seq. ID	OJ000121_12.0309.C30
Gene No.	96338	Strand	-
Start	195	End	615
Name	OJ000121_12.0309.C30.o1.gp	Method	AAT/GAP
Start	195	End	615
GI	none	Score	814
Exons	195..615		

Seq. No.	45545	Seq. ID	OJ000121_12.0309.C30
Gene No.	96339	Strand	-
Start	874	End	1336
Name	OJ000121_12.0309.C30.o1.ts	Method	TBLASTX:Soybean
Start	40	End	1312
GI	none	Score	58
Exons	40..141, 69..149, 1152..1307, 1154..1312		

Seq. No.	45545	Seq. ID	OJ000121_12.0309.C30
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Gene No.	96339	Strand	-
Start	874	End	1336
Name	OJ000121_12.0309.C30.o1.tm	Method	TBLASTX:Maize
Start	65	End	1336
GI	none	Score	113
Exons	65..148, 69..149, 72..149, 1152..1307, 1154..1336, 1154..1312		

Seq. No.	45545	Seq. ID	OJ000121_12.0309.C30
Gene No.	96339	Strand	-
Start	874	End	1336
Name	OJ000121_12.0309.C30.o1.tc	Method	TBLASTX:Cress
Start	90	End	1318
GI	none	Score	150
Exons	90..149, 1152..1316, 1154..1318		

Seq. No.	45545	Seq. ID	OJ000121_12.0309.C30
Gene No.	96339	Strand	-
Start	874	End	1336
Name	OJ000121_12.0309.C30.o2.gp	Method	AAT/GAP
Start	874	End	1329
GI	LIB3474-004-P1-K1-C6	Score	912
Exons	874..1329		
GI Descrip.	'4928472/gb AAD33602.1 AF133302.1 1.0e-16 (AF133302) type 2 peroxiredoxin [Brassica rapa subsp. pekinensis]'		

Seq. No.	45546	Seq. ID	OJ000121_12.0309.C34
Gene No.	96340	Strand	+
Start	593	End	3271
Name	OJ000121_12.0309.C34.o1.gp	Method	AAT/GAP
Start	593	End	3271
GI	39232_1.R1084	Score	644
Exons	593..709, 1848..1977, 3146..3271		
GI Descrip.	'3738302 5.0e-31 (AC005309) tubby-like protein [Arabidopsis thaliana] >gi_4249398 (AC006072) putative tubby protein [Arabidopsis thaliana]'		

Seq. No.	45546	Seq. ID	OJ000121_12.0309.C34
Gene No.	96341	Strand	-
Start	3460	End	4033
Name	OJ000121_12.0309.C34.o1.tm	Method	TBLASTX:Maize
Start	610	End	3724
GI	none	Score	150
Exons	610..705, 613..708, 615..710, 1826..1978, 1834..1986, 1851..1994, 1852..1977, 3132..3719, 3144..3719, 3257..3724, 3566..3724		

Seq. No.	45546	Seq. ID	OJ000121_12.0309.C34
Gene No.	96341	Strand	-
Start	3460	End	4033
Name	OJ000121_12.0309.C34.o2.tc	Method	TBLASTX:Cress
Start	613	End	3413
GI	none	Score	124
Exons	613..705, 615..704, 1826..1978, 1855..1977, 1857..1994, 3131..3193, 3144..3413, 3150..3209, 3257..3364		

Seq. No.	45546	Seq. ID	OJ000121_12.0309.C34
Gene No.	96341	Strand	-

Start	3460	End	4033
Name	OJ000121_12.0309.C34.o1.tw	Method	TBLASTX:Wheat
Start	1897	End	3485
GI	none	Score	90
Exons	1897..1977, 1898..1978, 3131..3199, 3141..3203, 3144..3485, 3257..3361, 3428..3472		

Seq. No.	45546	Seq. ID	OJ000121_12.0309.C34
Gene No.	96341	Strand	-
Start	3460	End	4033
Name	OJ000121_12.0309.C34.o1.ts	Method	TBLASTX:Soybean
Start	3258	End	3707
GI	none	Score	96
Exons	3258..3353, 3414..3707, 3434..3520, 3441..3707		

Seq. No.	45546	Seq. ID	OJ000121_12.0309.C34
Gene No.	96341	Strand	-
Start	3460	End	4033
Name	OJ000121_12.0309.C34.o1.tc	Method	TBLASTX:Cress
Start	3426	End	3704
GI	none	Score	419
Exons	3426..3704, 3426..3680, 3575..3703		

Seq. No.	45546	Seq. ID	OJ000121_12.0309.C34
Gene No.	96341	Strand	-
Start	3460	End	4033
Name	OJ000121_12.0309.C34.o2.gp	Method	AAT/GAP
Start	3460	End	4033
GI	41439_1.R1084	Score	1140
Exons	3460..4033		
GI Descrip.	'4309738/gb AAD15508  1.0e-25 (AC006439) putative tubby protein [Arabidopsis thaliana]'		

Seq. No.	45546	Seq. ID	OJ000121_12.0309.C34
Gene No.	96341	Strand	-
Start	3460	End	4033
Name	OJ000121_12.0309.C34.o2.tw	Method	TBLASTX:Wheat
Start	3543	End	3722
GI	none	Score	183
Exons	3543..3722, 3578..3703		

Seq. No.	45546	Seq. ID	OJ000121_12.0309.C34
Gene No.	96342	Strand	-
Start	7516	End	8191
Name	OJ000121_12.0309.C34.o2.tm	Method	TBLASTX:Maize
Start	7516	End	8191
GI	none	Score	85
Exons	7516..7671, 7517..7633, 7548..7676, 7551..7676, 7553..7672, 7554..7676, 7561..7671, 7568..7636, 7569..7673, 7569..7682, 7575..7676, 7577..7678, 7690..7758, 7694..7780, 7695..7739, 7700..7765, 7763..7801, 7767..7856, 7768..7881, 7768..7890, 7774..7875, 7775..7903, 7779..7883, 7782..7883, 7784..7882, 7785..7907, 7922..8011, 7953..8042, 7953..8012, 7956..8060, 7958..8011, 8050..8175, 8084..8191, 8087..8170, 8092..8184		

Seq. No.	45547	Seq. ID	OJ000121_12.0309.C36
Gene No.	96343	Strand	+



Start	6719	End	7603
Name	OJ000121_12.0309.C36.o1.gp	Method	AAT/GAP
Start	6719	End	7434
GI	uC-osroM202035f06b1	Score	848
Exons	6719..6873, 7058..7246, 7323..7434		
GI Descrip.	'3201625 1.0e-34 (AC004669) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	45547	Seq. ID	OJ000121_12.0309.C36
Gene No.	96343	Strand	+
Start	6719	End	7603
Name	OJ000121_12.0309.C36.o1.ts	Method	TBLASTX:Soybean
Start	7058	End	7591
GI	none	Score	181
Exons	7058..7246, 7135..7251, 7135..7245, 7157..7246, 7321..7482, 7323..7484, 7332..7487, 7480..7524, 7482..7580, 7484..7591		

Seq. No.	45547	Seq. ID	OJ000121_12.0309.C36
Gene No.	96343	Strand	+
Start	6719	End	7603
Name	OJ000121_12.0309.C36.o1.tc	Method	TBLASTX:Cress
Start	7345	End	7603
GI	none	Score	105
Exons	7345..7545, 7352..7564, 7352..7603, 7353..7589		

Seq. No.	45548	Seq. ID	OJ000121_12.0309.C37
Gene No.	96344	Strand	+
Start	286	End	710
Name	OJ000121_12.0309.C37.o1.tm	Method	TBLASTX:Maize
Start	261	End	691
GI	none	Score	226
Exons	261..449, 292..450, 638..691		

Seq. No.	45548	Seq. ID	OJ000121_12.0309.C37
Gene No.	96344	Strand	+
Start	286	End	710
Name	OJ000121_12.0309.C37.o1.gp	Method	AAT/GAP
Start	286	End	710
GI	10346_1.R1084	Score	820
Exons	286..710		
GI Descrip.	'3128218 2.0e-48 (AC004077) putative endl3 protein [Arabidopsis thaliana]'		

Seq. No.	45549	Seq. ID	OJ000121_12.0309.C42
Gene No.	96345	Strand	
Start	46	End	2049
Name	OJ000121_12.0309.C42.o1.tm	Method	TBLASTX:Maize
Start	46	End	2045
GI	none	Score	108
Exons	46..147, 49..147, 357..422, 361..423, 365..424, 365..424, 427..489, 428..484, 430..486, 592..696, 593..703, 593..703, 594..716, 616..708, 709..885, 728..871, 1532..1663, 1539..1664, 1539..1664, 1540..1671, 1540..1671, 1754..1777, 1757..1777, 1886..2044, 1887..2045		

Seq. No.	45549	Seq. ID	OJ000121_12.0309.C42
Gene No.	96345	Strand	

Start	46	End	2049
Name	OJ000121_12.0309.C42.ol.ts	Method	TBLASTX:Soybean
Start	767	End	2045
GI	none	Score	149
Exons	767..871, 787..885, 1529..1654, 1539..1664, 1540..1671, 1672..1782, 1757..1777, 1822..1959, 1886..2038, 1887..2045		

Seq. No.	45549	Seq. ID	OJ000121_12.0309.C42
Gene No.	96345	Strand	
Start	46	End	2049
Name	OJ000121_12.0309.C42.ol.tc	Method	TBLASTX:Cress
Start	1537	End	2045
GI	none	Score	110
Exons	1537..1671, 1539..1658, 1760..1777, 1887..2045, 1901..1987		

Seq. No.	45549	Seq. ID	OJ000121_12.0309.C42
Gene No.	96345	Strand	
Start	46	End	2049
Name	OJ000121_12.0309.C42.ol.tw	Method	TBLASTX:Wheat
Start	1845	End	2049
GI	none	Score	279
Exons	1845..2045, 1886..2044, 1891..2049		

Seq. No.	45550	Seq. ID	OJ000121_12.0309.C43
Gene No.	96346	Strand	-
Start	65	End	850
Name	OJ000121_12.0309.C43.ol.gp	Method	AAT/GAP
Start	65	End	850
GI	none	Score	803
Exons	65..112, 440..850		

Seq. No.	45550	Seq. ID	OJ000121_12.0309.C43
Gene No.	96346	Strand	-
Start	65	End	850
Name	OJ000121_12.0309.C43.ol.tm	Method	TBLASTX:Maize
Start	458	End	718
GI	none	Score	349
Exons	458..718, 458..514, 484..714		

Seq. No.	45551	Seq. ID	OJ000221_10.0313.C1
Gene No.	96347	Strand	-
Start	1	End	1575
Name	OJ000221_10.0313.C1.ol.np	Method	AAT/NAP
Start	1	End	1575
GI	7486341	Score	656
Exons	1..1575		
GI Descrip.	hypothetical protein F28P10.40 - Arabidopsis thaliana gi 4678295 emb CAB41086.1  (AL049655) putative protein [Arabidopsis thaliana]		

Seq. No.	45551	Seq. ID	OJ000221_10.0313.C1
Gene No.	96347	Strand	-
Start	1	End	1575
Name	OJ000221_10.0313.C1.ol.gs	Method	GENSCAN
Start	7	End	1454
GI	none	Score	.48
Exons	7..1454		

Seq. No.	45551	Seq. ID	OJ000221_10.0313.C1
Gene No.	96347	Strand	-
Start	1	End	1575
Name	OJ000221_10.0313.C1.o1.tc	Method	TBLASTX:Cress
Start	9	End	1232
GI	none	Score	85
Exons	9..311, 51..164, 57..410, 60..407, 141..515, 153..569, 153..353, 249..458, 270..620, 375..578, 474..620, 546..620, 621..929, 678..1025, 753..980, 792..1028, 894..1232, 975..1190, 1092..1232		

Seq. No.	45551	Seq. ID	OJ000221_10.0313.C1
Gene No.	96347	Strand	-
Start	1	End	1575
Name	OJ000221_10.0313.C1.o1.ts	Method	TBLASTX:Soybean
Start	18	End	1271
GI	none	Score	75
Exons	18..323, 19..210, 21..650, 51..620, 52..303, 58..201, 81..536, 153..530, 165..521, 186..620, 225..353, 234..353, 306..455, 312..536, 621..1226, 621..908, 622..882, 678..1055, 687..803, 696..872, 1008..1271		

Seq. No.	45551	Seq. ID	OJ000221_10.0313.C1
Gene No.	96347	Strand	-
Start	1	End	1575
Name	OJ000221_10.0313.C1.o1.tm	Method	TBLASTX:Maize
Start	27	End	1142
GI	none	Score	408
Exons	27..203, 60..281, 135..296, 267..509, 309..617, 345..515, 447..932, 447..932, 580..933, 969..1142		

Seq. No.	45552	Seq. ID	OJ000221_10.0313.C2
Gene No.	96348	Strand	+
Start	4360	End	5213
Name	OJ000221_10.0313.C2.o2.gs	Method	GENSCAN
Start	4360	End	5213
GI	none	Score	.82
Exons	4360..4670, 4751..5213		

Seq. No.	45552	Seq. ID	OJ000221_10.0313.C2
Gene No.	96348	Strand	+
Start	4360	End	5213
Name	OJ000221_10.0313.C2.o2.np	Method	AAT/NAP
Start	4366	End	5210
GI	7489554	Score	889
Exons	4366..4655, 4751..5210		
GI Descrip.	probable ribosomal protein S11, mitochondrial - rice gi 1841357 dbj BAA12798.1  (D85382) mitochondrial ribosomal protein S11 (nuclear encoded) [Oryza sativa]		

Seq. No.	45552	Seq. ID	OJ000221_10.0313.C2
Gene No.	96349	Strand	-
Start	859	End	3862
Name	OJ000221_10.0313.C2.o1.np	Method	AAT/NAP
Start	859	End	3748
GI	2895945	Score	306
Exons	859..925, 1086..1150, 1239..1319, 1410..1546, 2070..2525,		

GI Descrip. 2610..2728, 2804..2891, 3479..3598, 3701..3748  
(AF045888) putative DNA cytosine methyltransferase DNMT2 [Homo sapiens]

Seq. No.	45552	Seq. ID	OJ000221_10.0313.C2
Gene No.	96349	Strand	-
Start	859	End	3862
Name	OJ000221_10.0313.C2.o2.tm	Method	TBLASTX:Maize
Start	862	End	2721
GI	none	Score	88
Exons	862..924, 862..927, 1055..1153, 1077..1163, 1083..1151, 1084..1164, 1227..1334, 1238..1300, 1239..1307, 1439..1534, 1441..1533, 1628..1738, 1633..1743, 1635..1757, 1876..1962, 1903..2031, 1958..2032, 1961..2047, 2377..2463, 2397..2462, 2402..2485, 2403..2471, 2460..2528, 2464..2526, 2601..2720, 2623..2721, 2641..2721		

Seq. No.	45552	Seq. ID	OJ000221_10.0313.C2
Gene No.	96349	Strand	-
Start	859	End	3862
Name	OJ000221_10.0313.C2.o1.gs	Method	GENSCAN
Start	1239	End	3862
GI	none	Score	.67
Exons	1239..1394, 1438..1486, 1656..1731, 1821..2031, 2403..2525, 3488..3598, 3701..3862		

Seq. No.	45552	Seq. ID	OJ000221_10.0313.C2
Gene No.	96349	Strand	-
Start	859	End	3862
Name	OJ000221_10.0313.C2.o2.tc	Method	TBLASTX:Cress
Start	2632	End	3743
GI	none	Score	65
Exons	2632..2730, 2637..2735, 2641..2730, 2800..2898, 2802..2900, 3488..3598, 3701..3742, 3702..3743		

Seq. No.	45552	Seq. ID	OJ000221_10.0313.C2
Gene No.	96350	Strand	-
Start	4803	End	5322
Name	OJ000221_10.0313.C2.o1.tc	Method	TBLASTX:Cress
Start	4803	End	5201
GI	none	Score	235
Exons	4803..5144, 4982..5110, 5163..5201		

Seq. No.	45552	Seq. ID	OJ000221_10.0313.C2
Gene No.	96350	Strand	-
Start	4803	End	5322
Name	OJ000221_10.0313.C2.o1.tm	Method	TBLASTX:Maize
Start	4835	End	5322
GI	none	Score	253
Exons	4835..5179, 4837..4992, 4839..5213, 4904..5209, 5218..5322		

Seq. No.	45552	Seq. ID	OJ000221_10.0313.C2
Gene No.	96350	Strand	-
Start	4803	End	5322
Name	OJ000221_10.0313.C2.o1.ts	Method	TBLASTX:Soybean
Start	4839	End	5224
GI	none	Score	330

Exons 4839..5033, 4845..5222, 4904..5224

Seq. No.	45552	Seq. ID	OJ000221_10.0313.C2
Gene No.	96350	Strand	
Start	4803	End	5322
Name	OJ000221_10.0313.C2.ol.tw	Method	TBLASTX:Wheat
Start	4991	End	5201
GI	none	Score	94
Exons	4991..5170, 4994..5194, 4995..5201, 5073..5201		

Seq. No.	45553	Seq. ID	OJ000221_10.0313.C3
Gene No.	96351	Strand	+
Start	415	End	1443
Name	OJ000221_10.0313.C3.ol.gs	Method	GENSCAN
Start	415	End	1443
GI	none	Score	.79
Exons	415..485, 1296..1443		

Seq. No.	45554	Seq. ID	OJ000221_10.0313.C4
Gene No.	96352	Strand	+
Start	1419	End	2071
Name	OJ000221_10.0313.C4.ol.gs	Method	GENSCAN
Start	1419	End	1937
GI	none	Score	.94
Exons	1419..1584, 1590..1762, 1887..1937		

Seq. No.	45554	Seq. ID	OJ000221_10.0313.C4
Gene No.	96352	Strand	+
Start	1419	End	2071
Name	OJ000221_10.0313.C4.ol.np	Method	AAT/NAP
Start	1419	End	2071
GI	7489630	Score	411
Exons	1419..1584, 1683..1762, 1887..2071		
GI Descrip.	probable cytochrome-c oxidase (EC 1.9.3.1) Vb chain precursor - rice mitochondrion gi 1841355 dbj BAA12797.1  (D85381) cytochrome c oxidase subunit Vb precursor [Oryza sativa]		

Seq. No.	45554	Seq. ID	OJ000221_10.0313.C4
Gene No.	96352	Strand	+
Start	1419	End	2071
Name	OJ000221_10.0313.C4.ol.gp	Method	AAT/GAP
Start	1550	End	1955
GI	15151.1.R1084	Score	276
Exons	1550..1584, 1683..1762, 1887..1955		
GI Descrip.	'1420932/gb U61383 ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	45555	Seq. ID	OJ000221_10.0313.C5
Gene No.	96353	Strand	-
Start	914	End	2092
Name	OJ000221_10.0313.C5.ol.gs	Method	GENSCAN
Start	914	End	2092
GI	none	Score	.75
Exons	914..1107, 2047..2092		

Seq. No.	45556	Seq. ID	OJ000221_10.0313.C6
Gene No.	96354	Strand	+

Start	1	End	758
Name	OJ000221_10.0313.C6.o1.gp	Method	AAT/GAP
Start	1	End	685
GI	15151_1.R1084	Score	1023
Exons	1..87, 234..685		
GI Descrip.	'1420932/gb U61383 ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	45556	Seq. ID	OJ000221_10.0313.C6
Gene No.	96354	Strand	+
Start	1	End	758
Name	OJ000221_10.0313.C6.o1.np	Method	AAT/NAP
Start	1	End	295
GI	7489630	Score	245
Exons	1..91, 237..295		
GI Descrip.	probable cytochrome-c oxidase (EC 1.9.3.1) Vb chain precursor - rice mitochondrion gi 1841355 dbj BAA12797.1  (D85381) cytochrome c oxidase subunit Vb precursor [Oryza sativa]		

Seq. No.	45556	Seq. ID	OJ000221_10.0313.C6
Gene No.	96354	Strand	+
Start	1	End	758
Name	OJ000221_10.0313.C6.o1.gs	Method	GENSCAN
Start	370	End	758
GI	none	Score	.62
Exons	370..619, 738..758		

Seq. No.	45556	Seq. ID	OJ000221_10.0313.C6
Gene No.	96355	Strand	+
Start	2045	End	3724
Name	OJ000221_10.0313.C6.o2.gp	Method	AAT/GAP
Start	2045	End	3724
GI	21017_1.R1084	Score	2651
Exons	2045..3724		
GI Descrip.	'6006355/dbj AP000559.1 AP000559 2.0e-22 Oryza sativa genomic DNA, chromosome 6, clone:P0493C11'		

Seq. No.	45556	Seq. ID	OJ000221_10.0313.C6
Gene No.	96356	Strand	+
Start	5230	End	7213
Name	OJ000221_10.0313.C6.o3.gs	Method	GENSCAN
Start	5230	End	7213
GI	none	Score	.91
Exons	5230..5362, 6731..6826, 6864..7213		

Seq. No.	45556	Seq. ID	OJ000221_10.0313.C6
Gene No.	96357	Strand	-
Start	1812	End	4988
Name	OJ000221_10.0313.C6.o2.gs	Method	GENSCAN
Start	1812	End	4988
GI	none	Score	.71
Exons	1812..1911, 2117..2576, 2612..2846, 4530..4724, 4806..4834, 4904..4988		

Seq. No.	45556	Seq. ID	OJ000221_10.0313.C6
Gene No.	96358	Strand	-
Start	8999	End	9345

Name	OJ000221_10.0313.C6.o1.tm	Method	TBLASTX:Maize
Start	6	End	541
GI	none	Score	155
Exons	6..92, 7..90, 211..306, 227..256, 306..347, 307..348, 307..348, 363..413, 363..401, 377..409, 406..438, 408..485, 409..444, 414..464, 437..466, 446..526, 447..527, 468..539, 479..541		

Seq. No.	45556	Seq. ID	OJ000221_10.0313.C6
Gene No.	96358	Strand	-
Start	8999	End	9345
Name	OJ000221_10.0313.C6.o4.gs	Method	GENSCAN
Start	8999	End	9345
GI	none	Score	.86
Exons	8999..9151, 9211..9345		

Seq. No.	45557	Seq. ID	OJ000221_10.0313.C9
Gene No.	96359	Strand	+
Start	4225	End	7165
Name	OJ000221_10.0313.C9.o1.np	Method	AAT/NAP
Start	4225	End	7165
GI	5042463	Score	128
Exons	4225..4403, 5066..5240, 5292..5374, 7142..7165		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	45557	Seq. ID	OJ000221_10.0313.C9
Gene No.	96360	Strand	+
Start	12347	End	14650
Name	OJ000221_10.0313.C9.o1.gp	Method	AAT/GAP
Start	12224	End	14353
GI	41091_2.R1084	Score	1738
Exons	12224..12422, 13605..14353		
GI Descrip.	'1621268/emb CAB02653  1.0e-86 (Z81012) unknown [Ricinus communis]'		

Seq. No.	45557	Seq. ID	OJ000221_10.0313.C9
Gene No.	96360	Strand	+
Start	12347	End	14650
Name	OJ000221_10.0313.C9.o3.gs	Method	GENSCAN
Start	12347	End	14650
GI	none	Score	.97
Exons	12347..12422, 13605..14650		

Seq. No.	45557	Seq. ID	OJ000221_10.0313.C9
Gene No.	96360	Strand	+
Start	12347	End	14650
Name	OJ000221_10.0313.C9.o3.np	Method	AAT/NAP
Start	13539	End	14623
GI	7488898	Score	1262
Exons	13539..14623		
GI Descrip.	hypothetical protein - castor bean gi 1621268 emb CAB02653.1  (Z81012) unknown [Ricinus communis]		

Seq. No.	45557	Seq. ID	OJ000221_10.0313.C9
Gene No.	96361	Strand	+
Start	18521	End	20750
Name	OJ000221_10.0313.C9.o2.gp	Method	AAT/GAP
Start	18402	End	20264

GI 30676\_1.R1084 Score 863  
 Exons 18402..18523, 18634..18703, 19212..19268, 19357..19474, 20053..20142, 20218..20264  
 GI Descrip. '2507281/sp|P41917|RAN2\_ARATH 5.0e-55 GTP-BINDING NUCLEAR PROTEIN RAN-2 >gi\_1668706\_emb\_CAA66048\_ (X97380) atran2 [Arabidopsis thaliana]'

Seq. No. 45557 Seq. ID OJ000221\_10.0313.C9  
 Gene No. 96361 Strand +  
 Start 18521 End 20750  
 Name OJ000221\_10.0313.C9.o5.gs Method GENSCAN  
 Start 18521 End 20720  
 GI none Score .97  
 Exons 18521..18523, 18634..18703, 19212..19268, 19357..19474, 20053..20142, 20218..20397, 20483..20560, 20651..20720

Seq. No. 45557 Seq. ID OJ000221\_10.0313.C9  
 Gene No. 96361 Strand +  
 Start 18521 End 20750  
 Name OJ000221\_10.0313.C9.o4.np Method AAT/NAP  
 Start 18631 End 20717  
 GI 2149051 Score 968  
 Exons 18631..18703, 19212..19268, 19357..19474, 20053..20142, 20218..20397, 20483..20560, 20651..20717  
 GI Descrip. (U73810) small Ras-like GTP-binding protein [Arabidopsis thaliana]

Seq. No. 45557 Seq. ID OJ000221\_10.0313.C9  
 Gene No. 96361 Strand +  
 Start 18521 End 20750  
 Name OJ000221\_10.0313.C9.o3.gp Method AAT/GAP  
 Start 20483 End 20750  
 GI 58\_1.R1084 Score 311  
 Exons 20483..20560, 20651..20750  
 GI Descrip. '5360230/dbj|BAA81911.1| 1.0e-115 (AB015287) Ran [Oryza sativa]'

Seq. No. 45557 Seq. ID OJ000221\_10.0313.C9  
 Gene No. 96362 Strand -  
 Start 5689 End 7899  
 Name OJ000221\_10.0313.C9.o2.np Method AAT/NAP  
 Start 5689 End 7899  
 GI 7106514 Score 82  
 Exons 5689..5831, 7870..7899  
 GI Descrip. (AP001278) hypothetical protein [Oryza sativa]

Seq. No. 45557 Seq. ID OJ000221\_10.0313.C9  
 Gene No. 96363 Strand -  
 Start 16758 End 17826  
 Name OJ000221\_10.0313.C9.o4.tm Method TBLASTX:Maize  
 Start 797 End 927  
 GI none Score 185  
 Exons 797..925, 798..926, 799..927, 799..927

Seq. No. 45557 Seq. ID OJ000221\_10.0313.C9  
 Gene No. 96363 Strand -  
 Start 16758 End 17826  
 Name OJ000221\_10.0313.C9.o5.tm Method TBLASTX:Maize



Start	1300	End	1487
GI	none	Score	154
Exons	1300..1482, 1317..1487, 1333..1482		

Seq. No.	45557	Seq. ID	OJ000221_10.0313.C9
Gene No.	96363	Strand	-
Start	16758	End	17826
Name	OJ000221_10.0313.C9.o3.tm	Method	TBLASTX:Maize
Start	1633	End	1813
GI	none	Score	212
Exons	1633..1812, 1634..1813, 1653..1811, 1655..1813		

Seq. No.	45557	Seq. ID	OJ000221_10.0313.C9
Gene No.	96363	Strand	-
Start	16758	End	17826
Name	OJ000221_10.0313.C9.o1.tm	Method	TBLASTX:Maize
Start	13588	End	14883
GI	none	Score	473
Exons	13588..13887, 13604..13909, 13877..14104, 13891..14103, 14009..14107, 14098..14214, 14108..14644, 14113..14622, 14764..14883		

Seq. No.	45557	Seq. ID	OJ000221_10.0313.C9
Gene No.	96363	Strand	-
Start	16758	End	17826
Name	OJ000221_10.0313.C9.o3.tc	Method	TBLASTX:Cress
Start	13597	End	13903
GI	none	Score	63
Exons	13597..13650, 13604..13654, 13630..13902, 13640..13903		

Seq. No.	45557	Seq. ID	OJ000221_10.0313.C9
Gene No.	96363	Strand	-
Start	16758	End	17826
Name	OJ000221_10.0313.C9.o1.ts	Method	TBLASTX:Soybean
Start	13600	End	14626
GI	none	Score	73
Exons	13600..13638, 13604..13669, 13631..13912, 13639..13911, 13912..14526, 13913..14527, 14551..14616, 14567..14626		

Seq. No.	45557	Seq. ID	OJ000221_10.0313.C9
Gene No.	96363	Strand	-
Start	16758	End	17826
Name	OJ000221_10.0313.C9.o2.tw	Method	TBLASTX:Wheat
Start	13871	End	14143
GI	none	Score	212
Exons	13871..14113, 13873..14112, 14075..14143		

Seq. No.	45557	Seq. ID	OJ000221_10.0313.C9
Gene No.	96363	Strand	-
Start	16758	End	17826
Name	OJ000221_10.0313.C9.o1.tc	Method	TBLASTX:Cress
Start	13903	End	14593
GI	none	Score	807
Exons	13903..14565, 13904..14566, 14570..14593		

Seq. No.	45557	Seq. ID	OJ000221_10.0313.C9
Gene No.	96363	Strand	-

Start	16758	End	17826
Name	OJ000221_10.0313.C9.o4.gs	Method	GENSCAN
Start	16758	End	17826
GI	none	Score	.83
Exons	16758..17314, 17790..17826		

Seq. No.	45557	Seq. ID	OJ000221_10.0313.C9
Gene No.	96364	Strand	
Start	18449	End	20729
Name	OJ000221_10.0313.C9.o1.tw	Method	TBLASTX:Wheat
Start	18449	End	20729
GI	none	Score	39
Exons	18449..18544, 18633..18686, 18634..18687, 18634..18696, 19183..19245, 19211..19267, 19212..19259, 19352..19435, 19359..19472, 19362..19475, 19427..19474, 20052..20141, 20053..20142, 20053..20142, 20054..20143, 20054..20143, 20212..20397, 20214..20396, 20215..20397, 20216..20398, 20216..20401, 20483..20560, 20484..20561, 20652..20729, 20653..20721		

Seq. No.	45557	Seq. ID	OJ000221_10.0313.C9
Gene No.	96364	Strand	
Start	18449	End	20729
Name	OJ000221_10.0313.C9.o2.tm	Method	TBLASTX:Maize
Start	18633	End	20561
GI	none	Score	84
Exons	18633..18686, 18634..18687, 18634..18705, 19183..19245, 19211..19267, 19352..19435, 19359..19472, 19362..19475, 19427..19474, 20052..20114, 20053..20127, 20053..20142, 20054..20143, 20212..20397, 20214..20396, 20215..20397, 20216..20398, 20483..20560, 20484..20561		

Seq. No.	45557	Seq. ID	OJ000221_10.0313.C9
Gene No.	96364	Strand	
Start	18449	End	20729
Name	OJ000221_10.0313.C9.o2.ts	Method	TBLASTX:Soybean
Start	18633	End	20561
GI	none	Score	91
Exons	18633..18686, 18634..18687, 18643..18708, 19183..19245, 19210..19266, 19211..19267, 19352..19435, 19359..19472, 19367..19474, 20052..20126, 20053..20151, 20053..20136, 20054..20152, 20213..20398, 20215..20397, 20216..20404, 20483..20560, 20484..20561		

Seq. No.	45557	Seq. ID	OJ000221_10.0313.C9
Gene No.	96364	Strand	
Start	18449	End	20729
Name	OJ000221_10.0313.C9.o2.tc	Method	TBLASTX:Cress
Start	19410	End	20561
GI	none	Score	124
Exons	19410..19472, 19410..19475, 19427..19474, 20046..20141, 20053..20142, 20054..20143, 20208..20381, 20212..20382, 20214..20381, 20215..20397, 20216..20398, 20483..20560, 20484..20561		

Seq. No.	45558	Seq. ID	OJ000221_10.0313.C10
Gene No.	96365	Strand	-

Start	1689	End	2347
Name	OJ000221_10.0313.C10.o1.gs	Method	GENSCAN
Start	1689	End	2249
GI	none	Score	.98
Exons	1689..2249		

Seq. No.	45558	Seq. ID	OJ000221_10.0313.C10
Gene No.	96365	Strand	-
Start	1689	End	2347
Name	OJ000221_10.0313.C10.o1.np	Method	AAT/NAP
Start	1698	End	2347
GI	7486630	Score	68
Exons	1698..1884, 2155..2347		
GI Descrip.	hypothetical protein F8B4.140 - Arabidopsis thaliana gi 4049346 emb CAA22571.1  (AL034567) putative protein [Arabidopsis thaliana] gi 7270148 emb CAB79961.1  (AL161581) putative protein [Arabidopsis thaliana]		

Seq. No.	45559	Seq. ID	OJ000221_10.0313.C11
Gene No.	96366	Strand	+
Start	1245	End	6278
Name	OJ000221_10.0313.C11.o1.np	Method	AAT/NAP
Start	1245	End	2870
GI	7459171	Score	80
Exons	1245..1338, 2675..2870		
GI Descrip.	hypothetical protein T6H20.80 - Arabidopsis thaliana gi 5541670 emb CAB51176.1  (AL096859) putative protein [Arabidopsis thaliana]		

Seq. No.	45559	Seq. ID	OJ000221_10.0313.C11
Gene No.	96366	Strand	+
Start	1245	End	6278
Name	OJ000221_10.0313.C11.o2.np	Method	AAT/NAP
Start	2631	End	6278
GI	4966352	Score	188
Exons	2631..2785, 3909..3985, 4111..4384, 6235..6278		
GI Descrip.	(AC006341) >F309.11 [Arabidopsis thaliana]		

Seq. No.	45559	Seq. ID	OJ000221_10.0313.C11
Gene No.	96366	Strand	+
Start	1245	End	6278
Name	OJ000221_10.0313.C11.o2.gs	Method	GENSCAN
Start	2660	End	2873
GI	none	Score	.91
Exons	2660..2737, 2742..2873		

Seq. No.	45559	Seq. ID	OJ000221_10.0313.C11
Gene No.	96367	Strand	+
Start	6858	End	7392
Name	OJ000221_10.0313.C11.o3.gs	Method	GENSCAN
Start	6858	End	7392
GI	none	Score	.74
Exons	6858..7392		

Seq. No.	45559	Seq. ID	OJ000221_10.0313.C11
Gene No.	96368	Strand	-
Start	33	End	712

Name	OJ000221_10.0313.C11.o1.gs	Method	GENSCAN
Start	33	End	712
GI	none	Score	.92
Exons	33..221, 317..712		

Seq. No.	45559	Seq. ID	OJ000221_10.0313.C11
Gene No.	96369	Strand	-
Start	4625	End	6747
Name	OJ000221_10.0313.C11.o3.np	Method	AAT/NAP
Start	4625	End	6747
GI	7248394	Score	36
Exons	4625..4761, 6546..6747		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15011 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	45559	Seq. ID	OJ000221_10.0313.C11
Gene No.	96369	Strand	-
Start	4625	End	6747
Name	OJ000221_10.0313.C11.o1.gp	Method	AAT/GAP
Start	4733	End	4958
GI	2312838	Score	80
Exons	4733..4754, 4897..4958		
GI Descrip.	1420932/gb U61383 ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence		

Seq. No.	45560	Seq. ID	OJ000221_10.0313.C12
Gene No.	96370	Strand	+
Start	113	End	2951
Name	OJ000221_10.0313.C12.o1.gs	Method	GENSCAN
Start	113	End	2951
GI	none	Score	.6
Exons	113..507, 2330..2395, 2880..2951		

Seq. No.	45560	Seq. ID	OJ000221_10.0313.C12
Gene No.	96371	Strand	-
Start	331	End	2659
Name	OJ000221_10.0313.C12.o1.np	Method	AAT/NAP
Start	331	End	2659
GI	6721516	Score	601
Exons	331..389, 1715..2047, 2419..2659		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	45560	Seq. ID	OJ000221_10.0313.C12
Gene No.	96371	Strand	-
Start	331	End	2659
Name	OJ000221_10.0313.C12.o2.np	Method	AAT/NAP
Start	1458	End	2659
GI	6721516	Score	603
Exons	1458..1499, 1715..2047, 2419..2659		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	45561	Seq. ID	OJ000221_10.0313.C13
Gene No.	96372	Strand	+
Start	638	End	1237

Name	OJ000221_10.0313.C13.o1.gs	Method	GENSCAN
Start	638	End	1237
GI	none	Score	.58
Exons	638..710, 810..1237		

Seq. No.	45561	Seq. ID	OJ000221_10.0313.C13
Gene No.	96373	Strand	+
Start	11772	End	14624
Name	OJ000221_10.0313.C13.o3.np	Method	AAT/NAP
Start	11763	End	12098
GI	6721516	Score	153
Exons	11763..12098		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	45561	Seq. ID	OJ000221_10.0313.C13
Gene No.	96373	Strand	+
Start	11772	End	14624
Name	OJ000221_10.0313.C13.o3.gs	Method	GENSCAN
Start	11772	End	14624
GI	none	Score	.76
Exons	11772..11849, 11891..12115, 13454..13532, 14152..14624		

Seq. No.	45561	Seq. ID	OJ000221_10.0313.C13
Gene No.	96374	Strand	-
Start	2134	End	11369
Name	OJ000221_10.0313.C13.o2.gs	Method	GENSCAN
Start	2134	End	11369
GI	none	Score	.49
Exons	2134..2491, 2592..2978, 3048..3346, 3511..3560, 3611..3699, 3758..3840, 4194..4305, 4380..4478, 5857..6059, 6088..6199, 6302..6554, 6656..6959, 7068..7305, 8028..8169, 9311..9571, 9626..9809, 9959..10288, 10724..10870, 10902..11369		

Seq. No.	45561	Seq. ID	OJ000221_10.0313.C13
Gene No.	96374	Strand	-
Start	2134	End	11369
Name	OJ000221_10.0313.C13.o1.np	Method	AAT/NAP
Start	5207	End	10813
GI	4416302	Score	1876
Exons	5207..5770, 6492..6826, 6980..7463, 8488..8613, 9206..10813		
GI Descrip.	(AF105716) copia-type pol polyprotein [Zea mays]		

Seq. No.	45561	Seq. ID	OJ000221_10.0313.C13
Gene No.	96374	Strand	-
Start	2134	End	11369
Name	OJ000221_10.0313.C13.o2.np	Method	AAT/NAP
Start	10884	End	11057
GI	4416301	Score	77
Exons	10884..11057		
GI Descrip.	(AF105716) gag protein [Zea mays]		

Seq. No.	45561	Seq. ID	OJ000221_10.0313.C13
Gene No.	96375	Strand	-
Start	12073	End	13959
Name	OJ000221_10.0313.C13.o1.tm	Method	TBLASTX:Maize
Start	5154	End	9235
GI	none	Score	77

Exons 5154..5312, 5188..5310, 5199..5756, 5213..5758, 8994..9233, 9008..9235

Seq. No. 45561 Seq. ID OJ000221\_10.0313.C13  
Gene No. 96375 Strand -  
Start 12073 End 13959  
Name OJ000221\_10.0313.C13.o1.ts Method TBLASTX:Soybean  
Start 5201 End 9235  
GI none Score 56  
Exons 5201..5449, 5274..5441, 5483..5734, 5483..5752, 5490..5750, 9020..9235, 9069..9215

Seq. No. 45561 Seq. ID OJ000221\_10.0313.C13  
Gene No. 96375 Strand -  
Start 12073 End 13959  
Name OJ000221\_10.0313.C13.o1.tc Method TBLASTX:Cress  
Start 5228 End 9244  
GI none Score 75  
Exons 5228..5455, 5265..5447, 5459..5593, 5597..5686, 9023..9244, 9075..9233

Seq. No. 45561 Seq. ID OJ000221\_10.0313.C13  
Gene No. 96375 Strand -  
Start 12073 End 13959  
Name OJ000221\_10.0313.C13.o5.tw Method TBLASTX:Wheat  
Start 5261 End 9235  
GI none Score 49  
Exons 5261..5449, 5273..5392, 5468..5677, 5493..5573, 9068..9235

Seq. No. 45561 Seq. ID OJ000221\_10.0313.C13  
Gene No. 96375 Strand -  
Start 12073 End 13959  
Name OJ000221\_10.0313.C13.o4.tm Method TBLASTX:Maize  
Start 5760 End 6014  
GI none Score 233  
Exons 5760..6014, 5764..6003

Seq. No. 45561 Seq. ID OJ000221\_10.0313.C13  
Gene No. 96375 Strand -  
Start 12073 End 13959  
Name OJ000221\_10.0313.C13.o3.ts Method TBLASTX:Soybean  
Start 5824 End 9350  
GI 5509260 Score 199  
Exons 5824..6003, 5824..6003, 5829..6014, 5829..6014, 9237..9350  
GI Descrip. -

Seq. No. 45561 Seq. ID OJ000221\_10.0313.C13  
Gene No. 96375 Strand -  
Start 12073 End 13959  
Name OJ000221\_10.0313.C13.o2.tw Method TBLASTX:Wheat  
Start 5838 End 6014  
GI none Score 150  
Exons 5838..6014, 5839..6003

Seq. No. 45561 Seq. ID OJ000221\_10.0313.C13  
Gene No. 96375 Strand -  
Start 12073 End 13959

Name	OJ000221_10.0313.C13.o2.tm	Method	TBLASTX:Maize
Start	9426	End	10225
GI	none	Score	48
Exons	9426..9524, 9438..9476, 9537..10031, 9577..10023, 9635..10069, 9977..10210, 10008..10154, 10152..10199, 10154..10225		

Seq. No.	45561	Seq. ID	OJ000221_10.0313.C13
Gene No.	96375	Strand	-
Start	12073	End	13959
Name	OJ000221_10.0313.C13.o4.tw	Method	TBLASTX:Wheat
Start	9462	End	9803
GI	none	Score	49
Exons	9462..9551, 9472..9525, 9573..9710, 9573..9719, 9726..9803		

Seq. No.	45561	Seq. ID	OJ000221_10.0313.C13
Gene No.	96375	Strand	-
Start	12073	End	13959
Name	OJ000221_10.0313.C13.o2.ts	Method	TBLASTX:Soybean
Start	9585	End	10001
GI	none	Score	44
Exons	9585..10001, 9637..9789, 9868..9990		

Seq. No.	45561	Seq. ID	OJ000221_10.0313.C13
Gene No.	96375	Strand	-
Start	12073	End	13959
Name	OJ000221_10.0313.C13.o1.tw	Method	TBLASTX:Wheat
Start	9894	End	10460
GI	none	Score	63
Exons	9894..9971, 9897..10001, 9898..9972, 10007..10174, 10009..10065, 10214..10459, 10236..10460		

Seq. No.	45561	Seq. ID	OJ000221_10.0313.C13
Gene No.	96375	Strand	-
Start	12073	End	13959
Name	OJ000221_10.0313.C13.o3.tm	Method	TBLASTX:Maize
Start	10235	End	10622
GI	none	Score	91
Exons	10235..10486, 10238..10498, 10239..10502, 10281..10502, 10297..10503, 10491..10622, 10493..10621		

Seq. No.	45561	Seq. ID	OJ000221_10.0313.C13
Gene No.	96375	Strand	-
Start	12073	End	13959
Name	OJ000221_10.0313.C13.o3.tw	Method	TBLASTX:Wheat
Start	10535	End	10849
GI	none	Score	95
Exons	10535..10849, 10614..10832		

Seq. No.	45561	Seq. ID	OJ000221_10.0313.C13
Gene No.	96375	Strand	-
Start	12073	End	13959
Name	OJ000221_10.0313.C13.o5.tm	Method	TBLASTX:Maize
Start	10625	End	10985
GI	none	Score	117
Exons	10625..10864, 10632..10856, 10891..10983, 10893..10985		

Seq. No.	45561	Seq. ID	OJ000221_10.0313.C13
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Gene No.	96375	Strand	-
Start	12073	End	13959
Name	OJ000221_10.0313.C13.o4.np	Method	AAT/NAP
Start	12073	End	13959
GI	6815053	Score	226
Exons	12073..12103, 13458..13655, 13819..13959		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	45562	Seq. ID	OJ000221_10.0313.C14
Gene No.	96376	Strand	+
Start	4199	End	5504
Name	OJ000221_10.0313.C14.o1.np	Method	AAT/NAP
Start	4199	End	5504
GI	6815099	Score	86
Exons	4199..4306, 5406..5504		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	45562	Seq. ID	OJ000221_10.0313.C14
Gene No.	96377	Strand	+
Start	7986	End	8704
Name	OJ000221_10.0313.C14.o2.gs	Method	GENSCAN
Start	7986	End	8704
GI	none	Score	.91
Exons	7986..8054, 8264..8347, 8402..8704		

Seq. No.	45563	Seq. ID	OJ000221_10.0313.C15
Gene No.	96378	Strand	+
Start	571	End	2398
Name	OJ000221_10.0313.C15.o1.np	Method	AAT/NAP
Start	571	End	2398
GI	7448217	Score	487
Exons	571..707, 903..1142, 1391..1766, 1851..2071, 2379..2398		
GI Descrip.	5-epi-aristolochene synthase - common tobacco gi 505588 gb AAA19216.1  (L04680) 5-epi-aristolochene synthase [Nicotiana tabacum]		

Seq. No.	45563	Seq. ID	OJ000221_10.0313.C15
Gene No.	96378	Strand	+
Start	571	End	2398
Name	OJ000221_10.0313.C15.o1.tm	Method	TBLASTX:Maize
Start	1414	End	2070
GI	none	Score	156
Exons	1414..1548, 1414..1548, 1422..1550, 1446..1550, 1576..1680, 1576..1629, 1581..1679, 1684..1761, 1686..1754, 1847..2059, 1849..2070, 1850..2035, 1897..2055		

Seq. No.	45563	Seq. ID	OJ000221_10.0313.C15
Gene No.	96378	Strand	+
Start	571	End	2398
Name	OJ000221_10.0313.C15.o1.ts	Method	TBLASTX:Soybean
Start	1648	End	2115
GI	none	Score	82
Exons	1648..1767, 1852..2115		

Seq. No.	45564	Seq. ID	OJ000221_10.0313.C16
Gene No.	96379	Strand	+
Start	668	End	2230



Name	OJ000221_10.0313.C16.o1.gs	Method	GENSCAN
Start	668	End	2230
GI	none	Score	.84
Exons	668..803, 1029..1277, 1913..2230		

Seq. No.	45564	Seq. ID	OJ000221_10.0313.C16
Gene No.	96379	Strand	+
Start	668	End	2230
Name	OJ000221_10.0313.C16.o1.np	Method	AAT/NAP
Start	668	End	2200
GI	4733937	Score	213
Exons	668..815, 1029..1277, 1913..2200		
GI Descrip.	(AF080245) sesquiterpene synthase [Elaeis oleifera]		

Seq. No.	45564	Seq. ID	OJ000221_10.0313.C16
Gene No.	96380	Strand	+
Start	4090	End	4928
Name	OJ000221_10.0313.C16.o2.gs	Method	GENSCAN
Start	4090	End	4928
GI	none	Score	.85
Exons	4090..4166, 4654..4693, 4902..4928		

Seq. No.	45564	Seq. ID	OJ000221_10.0313.C16
Gene No.	96381	Strand	-
Start	5970	End	6496
Name	OJ000221_10.0313.C16.o2.tm	Method	TBLASTX:Maize
Start	684	End	2185
GI	none	Score	157
Exons	684..815, 684..800, 736..810, 1028..1111, 1028..1261, 1029..1268, 1029..1262, 1848..2057, 1888..1974, 1910..2185, 1910..2080		

Seq. No.	45564	Seq. ID	OJ000221_10.0313.C16
Gene No.	96381	Strand	-
Start	5970	End	6496
Name	OJ000221_10.0313.C16.o1.tw	Method	TBLASTX:Wheat
Start	1850	End	2200
GI	none	Score	145
Exons	1850..2053, 1921..2046, 2057..2200		

Seq. No.	45564	Seq. ID	OJ000221_10.0313.C16
Gene No.	96381	Strand	-
Start	5970	End	6496
Name	OJ000221_10.0313.C16.o3.gs	Method	GENSCAN
Start	5970	End	6437
GI	none	Score	.59
Exons	5970..6437		

Seq. No.	45564	Seq. ID	OJ000221_10.0313.C16
Gene No.	96381	Strand	-
Start	5970	End	6496
Name	OJ000221_10.0313.C16.o2.np	Method	AAT/NAP
Start	5973	End	6496
GI	7487049	Score	382
Exons	5973..6496		
GI Descrip.	hypothetical protein T16B24.13 - Arabidopsis thaliana gi 3402682 gb AAC28985.1  (AC004697) unknown protein		

[Arabidopsis thaliana]

Seq. No.	45564	Seq. ID	OJ000221_10.0313.C16
Gene No.	96381	Strand	-
Start	5970	End	6496
Name	OJ000221_10.0313.C16.o1.tm	Method	TBLASTX:Maize
Start	6039	End	6494
GI	none	Score	110
Exons	6039..6197, 6048..6170, 6048..6308, 6049..6309, 6261..6494		

Seq. No.	45564	Seq. ID	OJ000221_10.0313.C16
Gene No.	96381	Strand	-
Start	5970	End	6496
Name	OJ000221_10.0313.C16.o1.ts	Method	TBLASTX:Soybean
Start	6039	End	6488
GI	none	Score	62
Exons	6039..6434, 6039..6242, 6072..6488, 6124..6393, 6190..6474		

Seq. No.	45564	Seq. ID	OJ000221_10.0313.C16
Gene No.	96381	Strand	-
Start	5970	End	6496
Name	OJ000221_10.0313.C16.o1.tc	Method	TBLASTX:Cress
Start	6075	End	6494
GI	none	Score	144
Exons	6075..6317, 6078..6407, 6109..6423, 6285..6494, 6288..6485, 6396..6494		

Seq. No.	45565	Seq. ID	OJ000221_10.0313.C17
Gene No.	96382	Strand	-
Start	270	End	313
Name	OJ000221_10.0313.C17.o1.gs	Method	GENSCAN
Start	270	End	313
GI	none	Score	.59
Exons	270..313		

Seq. No.	45566	Seq. ID	OJ000221_10.0313.C20
Gene No.	96383	Strand	-
Start	1	End	1274
Name	OJ000221_10.0313.C20.o1.gp	Method	AAT/GAP
Start	1	End	403
GI	LIB3434-049-P1-K1-F9	Score	159
Exons	1..91, 365..403		
GI Descrip.	'5903036/gb AAD55595.1 AC008016_5 1.0e-36 (AC008016) F6D8.5 [Arabidopsis thaliana]'		

Seq. No.	45566	Seq. ID	OJ000221_10.0313.C20
Gene No.	96383	Strand	-
Start	1	End	1274
Name	OJ000221_10.0313.C20.o1.np	Method	AAT/NAP
Start	1	End	1274
GI	5903036	Score	75
Exons	1..91, 365..407, 1235..1274		
GI Descrip.	(AC008016) F6D8.5 [Arabidopsis thaliana]		

Seq. No.	45567	Seq. ID	OJ000221_10.0313.C21
Gene No.	96384	Strand	+
Start	1101	End	1217

Name	OJ000221_10.0313.C21.o1.gs	Method	GENSCAN
Start	1101	End	1217
GI	none	Score	.66
Exons	1101..1217		

Seq. No.	45568	Seq. ID	OJ000121_13.0317.C7
Gene No.	96385	Strand	-
Start	1	End	645
Name	OJ000121_13.0317.C7.o1.np	Method	AAT/NAP
Start	1	End	645
GI	7340860	Score	65
Exons	1..54, 511..645		
GI Descrip.	(AP001551) EST D24084(R1183) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	45568	Seq. ID	OJ000121_13.0317.C7
Gene No.	96385	Strand	-
Start	1	End	645
Name	OJ000121_13.0317.C7.o1.gs	Method	GENSCAN
Start	543	End	616
GI	none	Score	.67
Exons	543..616		

Seq. No.	45569	Seq. ID	OJ000121_13.0317.C9
Gene No.	96386	Strand	+
Start	1	End	662
Name	OJ000121_13.0317.C9.o1.gp	Method	AAT/GAP
Start	1	End	459
GI	none	Score	505
Exons	1..125, 210..459		

Seq. No.	45569	Seq. ID	OJ000121_13.0317.C9
Gene No.	96386	Strand	+
Start	1	End	662
Name	OJ000121_13.0317.C9.o1.gs	Method	GENSCAN
Start	56	End	662
GI	none	Score	.82
Exons	56..169, 216..662		

Seq. No.	45569	Seq. ID	OJ000121_13.0317.C9
Gene No.	96387	Strand	+
Start	4220	End	11585
Name	OJ000121_13.0317.C9.o2.np	Method	AAT/NAP
Start	4220	End	11585
GI	6539241	Score	367
Exons	4220..4508, 5291..5448, 10694..10740, 11522..11585		
GI Descrip.	(AC011765) putative exonuclease [Arabidopsis thaliana]		

Seq. No.	45569	Seq. ID	OJ000121_13.0317.C9
Gene No.	96388	Strand	-
Start	1021	End	11639
Name	OJ000121_13.0317.C9.o2.gs	Method	GENSCAN
Start	1021	End	11639
GI	none	Score	.7
Exons	1021..2243, 2331..3356, 3919..4073, 4105..4195, 4233..4295, 4312..4501, 5932..6043, 6109..6203, 7337..7491, 7692..7743, 8258..8410, 8464..8505, 8742..8921, 9113..9185, 9473..9717,		

11605..11639

Seq. No.	45569	Seq. ID	OJ000121_13.0317.C9
Gene No.	96388	Strand	-
Start	1021	End	11639
Name	OJ000121_13.0317.C9.o1.np	Method	AAT/NAP
Start	1042	End	4210
GI	7340884	Score	859
Exons	1042..2001, 2110..2243, 2331..3344, 3941..4210		
GI Descrip.	(AP001551) Similar to Antirrhinum majus transposon Tam3 gene for transposase. (AB013982) [Oryza sativa]		

Seq. No.	45569	Seq. ID	OJ000121_13.0317.C9
Gene No.	96388	Strand	-
Start	1021	End	11639
Name	OJ000121_13.0317.C9.o2.tm	Method	TBLASTX:Maize
Start	1114	End	1362
GI	none	Score	108
Exons	1114..1362, 1142..1297		

Seq. No.	45569	Seq. ID	OJ000121_13.0317.C9
Gene No.	96388	Strand	-
Start	1021	End	11639
Name	OJ000121_13.0317.C9.o3.tm	Method	TBLASTX:Maize
Start	1564	End	2091
GI	none	Score	106
Exons	1564..1767, 1565..1753, 1990..2091		

Seq. No.	45569	Seq. ID	OJ000121_13.0317.C9
Gene No.	96388	Strand	-
Start	1021	End	11639
Name	OJ000121_13.0317.C9.o1.tm	Method	TBLASTX:Maize
Start	2713	End	3024
GI	none	Score	167
Exons	2713..2958, 2720..2947, 2960..3004, 2965..3024		

Seq. No.	45569	Seq. ID	OJ000121_13.0317.C9
Gene No.	96388	Strand	-
Start	1021	End	11639
Name	OJ000121_13.0317.C9.o1.ts	Method	TBLASTX:Soybean
Start	4232	End	11585
GI	none	Score	113
Exons	4232..4363, 4262..4561, 4433..4510, 5289..5459, 5290..5460, 11519..11584, 11520..11582, 11520..11585		

Seq. No.	45570	Seq. ID	OJ000121_13.0317.C10
Gene No.	96389	Strand	+
Start	1	End	4390
Name	OJ000121_13.0317.C10.o1.np	Method	AAT/NAP
Start	1	End	1587
GI	6539241	Score	177
Exons	1..30, 671..972, 1353..1587		
GI Descrip.	(AC011765) putative exonuclease [Arabidopsis thaliana]		

Seq. No.	45570	Seq. ID	OJ000121_13.0317.C10
Gene No.	96389	Strand	+
Start	1	End	4390

Name	OJ000121_13.0317.C10.o1.gs	Method	GENSCAN
Start	554	End	4390
GI	none	Score	.58
Exons	554..972, 1353..1583, 2079..2109, 4275..4390		

Seq. No.	45570	Seq. ID	OJ000121_13.0317.C10
Gene No.	96389	Strand	+
Start	1	End	4390
Name	OJ000121_13.0317.C10.o1.tm	Method	TBLASTX:Maize
Start	1344	End	1590
GI	none	Score	214
Exons	1344..1589, 1351..1590		

Seq. No.	45571	Seq. ID	OJ000121_13.0317.C11
Gene No.	96390	Strand	-
Start	4316	End	4507
Name	OJ000121_13.0317.C11.o2.gs	Method	GENSCAN
Start	4316	End	4507
GI	none	Score	.8
Exons	4316..4507		

Seq. No.	45571	Seq. ID	OJ000121_13.0317.C11
Gene No.	96391	Strand	-
Start	5059	End	6108
Name	OJ000121_13.0317.C11.o3.gs	Method	GENSCAN
Start	5059	End	6108
GI	none	Score	.66
Exons	5059..5130, 5568..5748, 5984..6108		

Seq. No.	45571	Seq. ID	OJ000121_13.0317.C11
Gene No.	96392	Strand	-
Start	7206	End	8411
Name	OJ000121_13.0317.C11.o1.np	Method	AAT/NAP
Start	7206	End	8411
GI	6862923	Score	533
Exons	7206..8411		
GI Descrip.	(AC018907) unknown protein [Arabidopsis thaliana]		

Seq. No.	45571	Seq. ID	OJ000121_13.0317.C11
Gene No.	96393	Strand	-
Start	10053	End	17386
Name	OJ000121_13.0317.C11.o1.tw	Method	TBLASTX:Wheat
Start	4269	End	13209
GI	none	Score	68
Exons	4269..4388, 4425..4499, 7317..7394, 7410..7583, 7593..7676, 10107..10205, 10218..10373, 10395..10511, 12814..12909, 12931..13104, 13120..13209		

Seq. No.	45571	Seq. ID	OJ000121_13.0317.C11
Gene No.	96393	Strand	-
Start	10053	End	17386
Name	OJ000121_13.0317.C11.o1.tm	Method	TBLASTX:Maize
Start	4272	End	13209
GI	none	Score	73
Exons	4272..4388, 7314..7577, 7315..7569, 7320..7577, 7593..7676, 7621..7677, 7693..7866, 7695..7871, 7908..8018, 8089..8328, 8178..8315, 10111..10287, 10125..10385, 10401..10484,		

10411..10476, 10485..10673, 10492..10599, 10761..10856,  
 11016..11096, 11116..11169, 12074..12265, 12091..12264,  
 12506..12601, 12667..12828, 12687..12830, 12841..12924,  
 12846..12911, 12937..13209, 13008..13208

Seq. No.	45571	Seq. ID	OJ000121_13.0317.C11
Gene No.	96393	Strand	-
Start	10053	End	17386
Name	OJ000121_13.0317.C11.o1.ts	Method	TBLASTX:Soybean
Start	4272	End	13209
GI	none	Score	85
Exons	4272..4388, 4389..4499, 7314..7577, 7315..7569, 7593..7676, 7621..7665, 7692..7871, 7702..7863, 7908..8012, 7948..8019, 10111..10293, 10125..10385, 10401..10472, 10401..10484, 10485..10673, 10504..10605, 10761..10877, 12506..12601, 12667..12828, 12681..12821, 12841..12924, 12849..12911, 12937..13209, 13032..13208		

Seq. No.	45571	Seq. ID	OJ000121_13.0317.C11
Gene No.	96393	Strand	-
Start	10053	End	17386
Name	OJ000121_13.0317.C11.o1.tc	Method	TBLASTX:Cress
Start	7299	End	13209
GI	none	Score	116
Exons	7299..7577, 7378..7569, 7593..7676, 10125..10385, 10126..10287, 10401..10511, 12811..12924, 12841..12921, 12937..13209, 13008..13208		

Seq. No.	45571	Seq. ID	OJ000121_13.0317.C11
Gene No.	96393	Strand	-
Start	10053	End	17386
Name	OJ000121_13.0317.C11.o2.tc	Method	TBLASTX:Cress
Start	7692	End	12810
GI	none	Score	95
Exons	7692..7871, 7714..7866, 7917..7997, 10515..10673, 12667..12810, 12699..12809		

Seq. No.	45571	Seq. ID	OJ000121_13.0317.C11
Gene No.	96393	Strand	-
Start	10053	End	17386
Name	OJ000121_13.0317.C11.o2.tw	Method	TBLASTX:Wheat
Start	7713	End	12810
GI	none	Score	103
Exons	7713..7865, 7714..7866, 7932..8054, 10515..10679, 10521..10667, 12518..12586, 12667..12810, 12687..12809		

Seq. No.	45571	Seq. ID	OJ000121_13.0317.C11
Gene No.	96393	Strand	-
Start	10053	End	17386
Name	OJ000121_13.0317.C11.o5.gs	Method	GENSCAN
Start	10053	End	11282
GI	none	Score	.86
Exons	10053..11282		

Seq. No.	45571	Seq. ID	OJ000121_13.0317.C11
Gene No.	96393	Strand	-
Start	10053	End	17386

Name	OJ000121_13.0317.C11.o2.np	Method	AAT/NAP
Start	10110	End	17386
GI	4680501	Score	631
Exons	10110..10668, 10726..11189, 17359..17386		
GI Descrip.	(AF119222) hypothetical protein [Oryza sativa]		

Seq. No.	45571	Seq. ID	OJ000121_13.0317.C11
Gene No.	96393	Strand	-
Start	10053	End	17386
Name	OJ000121_13.0317.C11.o7.gs	Method	GENSCAN
Start	15784	End	17288
GI	none	Score	.4
Exons	15784..15798, 16856..17092, 17118..17288		

Seq. No.	45572	Seq. ID	OJ000121_13.0317.C12
Gene No.	96394	Strand	+
Start	72	End	3108
Name	OJ000121_13.0317.C12.o1.gs	Method	GENSCAN
Start	72	End	3108
GI	none	Score	.6
Exons	72..260, 3034..3108		

Seq. No.	45572	Seq. ID	OJ000121_13.0317.C12
Gene No.	96394	Strand	+
Start	72	End	3108
Name	OJ000121_13.0317.C12.o1.gp	Method	AAT/GAP
Start	2294	End	2815
GI	LIB3434-038-P1-K1-F1	Score	764
Exons	2294..2815		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 0.0e+00 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	45572	Seq. ID	OJ000121_13.0317.C12
Gene No.	96395	Strand	+
Start	7283	End	9924
Name	OJ000121_13.0317.C12.o3.gs	Method	GENSCAN
Start	7283	End	9924
GI	none	Score	.55
Exons	7283..7591, 8775..9097, 9180..9412, 9602..9924		

Seq. No.	45572	Seq. ID	OJ000121_13.0317.C12
Gene No.	96395	Strand	+
Start	7283	End	9924
Name	OJ000121_13.0317.C12.o3.np	Method	AAT/NAP
Start	7434	End	9906
GI	4680501	Score	246
Exons	7434..7495, 9631..9906		
GI Descrip.	(AF119222) hypothetical protein [Oryza sativa]		

Seq. No.	45572	Seq. ID	OJ000121_13.0317.C12
Gene No.	96396	Strand	+
Start	12093	End	13609
Name	OJ000121_13.0317.C12.o4.gs	Method	GENSCAN
Start	12093	End	13609
GI	none	Score	.56
Exons	12093..12171, 12580..12886, 12949..13071, 13342..13609		

Seq. No.	45572	Seq. ID	OJ000121_13.0317.C12
Gene No.	96397	Strand	-
Start	5180	End	9921
Name	OJ000121_13.0317.C12.o1.tm	Method	TBLASTX:Maize
Start	5144	End	9891
GI	none	Score	102
Exons	5144..5467, 5211..5372, 5483..5566, 5493..5546, 5579..5755, 5589..5699, 5822..5917, 6101..6190, 6201..6254, 9628..9891, 9631..9867, 9639..9887		

Seq. No.	45572	Seq. ID	OJ000121_13.0317.C12
Gene No.	96397	Strand	-
Start	5180	End	9921
Name	OJ000121_13.0317.C12.o1.ts	Method	TBLASTX:Soybean
Start	5150	End	9921
GI	none	Score	93
Exons	5150..5467, 5187..5372, 5483..5587, 5576..5794, 5589..5696, 5822..5917, 9628..9921, 9639..9869		

Seq. No.	45572	Seq. ID	OJ000121_13.0317.C12
Gene No.	96397	Strand	-
Start	5180	End	9921
Name	OJ000121_13.0317.C12.o2.gs	Method	GENSCAN
Start	5180	End	6367
GI	none	Score	.54
Exons	5180..6367		

Seq. No.	45572	Seq. ID	OJ000121_13.0317.C12
Gene No.	96397	Strand	-
Start	5180	End	9921
Name	OJ000121_13.0317.C12.o1.np	Method	AAT/NAP
Start	5195	End	7667
GI	4680500	Score	532
Exons	5195..5911, 7545..7667		
GI Descrip.	(AF119222) hypothetical protein [Oryza sativa]		

Seq. No.	45572	Seq. ID	OJ000121_13.0317.C12
Gene No.	96397	Strand	-
Start	5180	End	9921
Name	OJ000121_13.0317.C12.o1.tc	Method	TBLASTX:Cress
Start	5198	End	9911
GI	none	Score	101
Exons	5198..5467, 5211..5378, 5495..5566, 9631..9891, 9639..9911		

Seq. No.	45572	Seq. ID	OJ000121_13.0317.C12
Gene No.	96397	Strand	-
Start	5180	End	9921
Name	OJ000121_13.0317.C12.o1.tw	Method	TBLASTX:Wheat
Start	5198	End	9903
GI	none	Score	56
Exons	5198..5287, 5226..5288, 5300..5455, 5308..5352, 5477..5593, 9619..9798, 9814..9903		

Seq. No.	45572	Seq. ID	OJ000121_13.0317.C12
Gene No.	96397	Strand	-
Start	5180	End	9921
Name	OJ000121_13.0317.C12.o2.tw	Method	TBLASTX:Wheat



Start	5597	End	5920
GI	none	Score	101
Exons	5597..5767, 5598..5753, 5603..5770, 5840..5920		

Seq. No.	45572	Seq. ID	OJ000121_13.0317.C12
Gene No.	96397	Strand	-
Start	5180	End	9921
Name	OJ000121_13.0317.C12.o2.np	Method	AAT/NAP
Start	6055	End	6284
GI	7485282	Score	55
Exons	6055..6284		
GI Descrip.	hypothetical protein A_TM018A10.12 - Arabidopsis thaliana gi 2252859 gb AAB62857.1  (AF013294) A_TM018A10.12 gene product [Arabidopsis thaliana] gi 7267417 emb CAB80887.1  (AL161472) coded for by A. thaliana cDNA T03964, coded for by A. thaliana cDNA N65507, coded for by A. thaliana cDNA R30142, coded for by A. thaliana cDNA R65502, coded for by A. thaliana cDNA T20615; sim		

Seq. No.	45573	Seq. ID	OJ000121_13.0317.C13
Gene No.	96398	Strand	+
Start	8127	End	11148
Name	OJ000121_13.0317.C13.o2.gs	Method	GENSCAN
Start	8127	End	11148
GI	none	Score	.84
Exons	8127..9231, 10300..10427, 10999..11148		

Seq. No.	45573	Seq. ID	OJ000121_13.0317.C13
Gene No.	96398	Strand	+
Start	8127	End	11148
Name	OJ000121_13.0317.C13.o3.np	Method	AAT/NAP
Start	8175	End	9218
GI	4680501	Score	574
Exons	8175..9218		
GI Descrip.	(AF119222) hypothetical protein [Oryza sativa]		

Seq. No.	45573	Seq. ID	OJ000121_13.0317.C13
Gene No.	96399	Strand	+
Start	12731	End	12932
Name	OJ000121_13.0317.C13.o3.gs	Method	GENSCAN
Start	12731	End	12873
GI	none	Score	.43
Exons	12731..12873		

Seq. No.	45573	Seq. ID	OJ000121_13.0317.C13
Gene No.	96399	Strand	+
Start	12731	End	12932
Name	OJ000121_13.0317.C13.o5.np	Method	AAT/NAP
Start	12772	End	12932
GI	7340905	Score	83
Exons	12772..12932		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	45573	Seq. ID	OJ000121_13.0317.C13
Gene No.	96400	Strand	-
Start	537	End	3094
Name	OJ000121_13.0317.C13.o1.gs	Method	GENSCAN

Start	537	End	3094
GI	none	Score	.47
Exons	537..1147, 1494..1865, 2268..2483, 2547..2662, 2847..3094		

  

Seq. No.	45573	Seq. ID	OJ000121_13.0317.C13
Gene No.	96400	Strand	-
Start	537	End	3094
Name	OJ000121_13.0317.C13.o1.np	Method	AAT/NAP
Start	597	End	2694
GI	7363274	Score	893
Exons	597..1936, 2018..2694		
GI Descrip.	(AP001552) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F17A8; putative protein. (AL049482) [Oryza sativa]		

Seq. No.	45573	Seq. ID	OJ000121_13.0317.C13
Gene No.	96401	Strand	-
Start	4938	End	9245
Name	OJ000121_13.0317.C13.o2.tm	Method	TBLASTX:Maize
Start	591	End	1019
GI	none	Score	107
Exons	591..890, 591..1019, 703..1005		

Seq. No.	45573	Seq. ID	OJ000121_13.0317.C13
Gene No.	96401	Strand	-
Start	4938	End	9245
Name	OJ000121_13.0317.C13.o3.tm	Method	TBLASTX:Maize
Start	1377	End	1645
GI	none	Score	85
Exons	1377..1490, 1377..1496, 1384..1491, 1514..1645, 1516..1644, 1568..1645		

Seq. No.	45573	Seq. ID	OJ000121_13.0317.C13
Gene No.	96401	Strand	-
Start	4938	End	9245
Name	OJ000121_13.0317.C13.o2.np	Method	AAT/NAP
Start	4938	End	8986
GI	133435	Score	149
Exons	4938..4973, 6200..6336, 8907..8986		
GI Descrip.	DNA-DIRECTED RNA POLYMERASE BETA' CHAIN gi 66983 pir  RNRZC1 DNA-directed RNA polymerase (EC 2.7.7.6) beta'-1 chain - rice chloroplast gi 11972 emb CAA33987  (X15901) RNA polymerase beta' subunit-1 [Oryza sativa] gi 226690 prf  1603356Q RNA polymerase beta'-1 [Oryza sativa]		

Seq. No.	45573	Seq. ID	OJ000121_13.0317.C13
Gene No.	96401	Strand	-
Start	4938	End	9245
Name	OJ000121_13.0317.C13.o1.tm	Method	TBLASTX:Maize
Start	8259	End	9245
GI	none	Score	83
Exons	8259..8342, 8514..8609, 8661..8837, 8666..8839, 8850..8933, 8855..8935, 8940..9245, 8951..9214		

Seq. No.	45573	Seq. ID	OJ000121_13.0317.C13
Gene No.	96401	Strand	-
Start	4938	End	9245
Name	OJ000121_13.0317.C13.o1.ts	Method	TBLASTX:Soybean

Start	8508	End	9245
GI	none	Score	84
Exons	8508..8609, 8661..8840, 8705..8830, 8841..8933, 8850..8933, 8858..8935, 8940..9245, 8951..9214		

Seq. No.	45573	Seq. ID	OJ000121_13.0317.C13
Gene No.	96401	Strand	-
Start	4938	End	9245
Name	OJ000121_13.0317.C13.o1.tw	Method	TBLASTX:Wheat
Start	8514	End	8819
GI	none	Score	87
Exons	8514..8606, 8621..8818, 8625..8819		

Seq. No.	45573	Seq. ID	OJ000121_13.0317.C13
Gene No.	96401	Strand	-
Start	4938	End	9245
Name	OJ000121_13.0317.C13.o2.tw	Method	TBLASTX:Wheat
Start	8823	End	9215
GI	none	Score	63
Exons	8823..8918, 8937..9110, 9123..9215		

Seq. No.	45573	Seq. ID	OJ000121_13.0317.C13
Gene No.	96401	Strand	-
Start	4938	End	9245
Name	OJ000121_13.0317.C13.o1.tc	Method	TBLASTX:Cress
Start	8850	End	9217
GI	none	Score	75
Exons	8850..8933, 8942..9217, 8943..9215		

Seq. No.	45574	Seq. ID	OJ000121_13.0317.C14
Gene No.	96402	Strand	+
Start	542	End	3390
Name	OJ000121_13.0317.C14.o1.gs	Method	GENSCAN
Start	542	End	1584
GI	none	Score	.79
Exons	542..704, 749..810, 906..967, 993..1584		

Seq. No.	45574	Seq. ID	OJ000121_13.0317.C14
Gene No.	96402	Strand	+
Start	542	End	3390
Name	OJ000121_13.0317.C14.o1.np	Method	AAT/NAP
Start	545	End	3390
GI	4680338	Score	518
Exons	545..1516, 3305..3390		
GI Descrip.	(AF128457) hypothetical protein [Oryza sativa subsp. indica]		

Seq. No.	45574	Seq. ID	OJ000121_13.0317.C14
Gene No.	96402	Strand	+
Start	542	End	3390
Name	OJ000121_13.0317.C14.o1.gp	Method	AAT/GAP
Start	1662	End	1933
GI	5003883	Score	449
Exons	1662..1933		
GI Descrip.	119577emb X15901 CHOSXX 1.0e-166 Rice complete chloroplast genome		

Seq. No.	45574	Seq. ID	OJ000121_13.0317.C14
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Gene No.	96403	Strand	+
Start	4309	End	14844
Name	OJ000121_13.0317.C14.o2.np	Method	AAT/NAP
Start	4309	End	5929
GI	94938	Score	41
Exons	4309..4551, 5909..5929		
GI Descrip.	2-aminobenzoate--CoA ligase, aerobic - Pseudomonas sp. (DSM 6898) plasmid pKB740 gi 45666 emb CAA45209  (X63668) 2-aminobenzoate-CoA ligase [Pseudomonas sp.] gi 45866 emb CAA47168  (X66604) 2-aminobenzoate-CoA ligase [Pseudomonas sp.]		

Seq. No.	45574	Seq. ID	OJ000121_13.0317.C14
Gene No.	96403	Strand	+
Start	4309	End	14844
Name	OJ000121_13.0317.C14.o3.gs	Method	GENSCAN
Start	4739	End	10307
GI	none	Score	.69
Exons	4739..5800, 5815..6011, 6459..6622, 6667..6733, 7083..7163, 7820..7955, 8365..8613, 9216..10307		

Seq. No.	45574	Seq. ID	OJ000121_13.0317.C14
Gene No.	96403	Strand	+
Start	4309	End	14844
Name	OJ000121_13.0317.C14.o3.np	Method	AAT/NAP
Start	4748	End	9496
GI	130582	Score	545
Exons	4748..5768, 9459..9496		
GI Descrip.	RETROVIRUS-RELATED POL POLYPROTEIN FROM TRANSPOSON TNT 1-94 [CONTAINS: PROTEASE ; REVERSE TRANSCRIPTASE ; ENDONUCLEASE] gi 100342 pir  S04273 hypothetical protein - common tobacco gi 20045 emb CAA32025  (X13777) ORF [Nicotiana tabacum]		

Seq. No.	45574	Seq. ID	OJ000121_13.0317.C14
Gene No.	96403	Strand	+
Start	4309	End	14844
Name	OJ000121_13.0317.C14.o4.np	Method	AAT/NAP
Start	6867	End	14826
GI	4680338	Score	696
Exons	6867..6912, 9250..9454, 9966..10050, 13855..13927, 14119..14826		
GI Descrip.	(AF128457) hypothetical protein [Oryza sativa subsp. indica]		

Seq. No.	45574	Seq. ID	OJ000121_13.0317.C14
Gene No.	96403	Strand	+
Start	4309	End	14844
Name	OJ000121_13.0317.C14.o4.gs	Method	GENSCAN
Start	10947	End	11142
GI	none	Score	.77
Exons	10947..11019, 11021..11142		

Seq. No.	45574	Seq. ID	OJ000121_13.0317.C14
Gene No.	96403	Strand	+
Start	4309	End	14844
Name	OJ000121_13.0317.C14.o5.gs	Method	GENSCAN
Start	13735	End	14844
GI	none	Score	.97
Exons	13735..14844		

Seq. No.	45574	Seq. ID	OJ000121_13.0317.C14
Gene No.	96404	Strand	+
Start	16282	End	16700
Name	OJ000121_13.0317.C14.o2.gp	Method	AAT/GAP
Start	16282	End	16700
GI	uC-osflcyp102f12a1	Score	712
Exons	16282..16700		
GI Descrip.	'11957/emb X15901 CHOSXX 1.0e-166 Rice complete chloroplast genome'		

Seq. No.	45574	Seq. ID	OJ000121_13.0317.C14
Gene No.	96405	Strand	-
Start	2245	End	14853
Name	OJ000121_13.0317.C14.o1.tm	Method	TBLASTX:Maize
Start	551	End	14853
GI	none	Score	111
Exons	551..736, 559..669, 891..989, 1039..1215, 1113..1205, 1228..1311, 1234..1308, 1324..1524, 9281..9433, 9285..9449, 9618..9716, 9762..9932, 9842..9931, 9951..10034, 10047..10247, 10058..10249, 13870..13941, 14119..14199, 14266..14442, 14295..14444, 14455..14535, 14455..14529, 14548..14853, 14551..14787, 14559..14795		

Seq. No.	45574	Seq. ID	OJ000121_13.0317.C14
Gene No.	96405	Strand	-
Start	2245	End	14853
Name	OJ000121_13.0317.C14.o2.tw	Method	TBLASTX:Wheat
Start	890	End	14424
GI	none	Score	83
Exons	890..982, 891..989, 1018..1191, 1057..1197, 1107..1196, 9618..9737, 9777..9920, 9777..9914, 9842..9919, 14117..14206, 14119..14202, 14278..14364, 14282..14365, 14284..14424, 14292..14423		

Seq. No.	45574	Seq. ID	OJ000121_13.0317.C14
Gene No.	96405	Strand	-
Start	2245	End	14853
Name	OJ000121_13.0317.C14.o1.ts	Method	TBLASTX:Soybean
Start	891	End	14853
GI	none	Score	84
Exons	891..989, 1039..1209, 1107..1205, 1219..1311, 1234..1308, 1324..1524, 1335..1526, 9612..9716, 9762..9938, 9842..9931, 9951..10034, 10047..10247, 10058..10267, 14119..14199, 14266..14454, 14298..14435, 14455..14535, 14461..14535, 14548..14853, 14559..14792		

Seq. No.	45574	Seq. ID	OJ000121_13.0317.C14
Gene No.	96405	Strand	-
Start	2245	End	14853
Name	OJ000121_13.0317.C14.o1.tw	Method	TBLASTX:Wheat
Start	1201	End	14823
GI	none	Score	68
Exons	1201..1320, 1339..1494, 9957..10019, 10062..10217, 14461..14523, 14515..14718, 14734..14823		

Seq. No.	45574	Seq. ID	OJ000121_13.0317.C14
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Gene No.	96405	Strand	-
Start	2245	End	14853
Name	OJ000121_13.0317.C14.o1.tc	Method	TBLASTX:Cress
Start	1237	End	14823
GI	none	Score	65
Exons	1237..1305, 1327..1530, 9951..10028, 9960..10031, 10050..10253, 10058..10249, 14428..14532, 14467..14535, 14557..14823, 14559..14789		

Seq. No.	45574	Seq. ID	OJ000121_13.0317.C14
Gene No.	96405	Strand	-
Start	2245	End	14853
Name	OJ000121_13.0317.C14.o2.tm	Method	TBLASTX:Maize
Start	1677	End	1934
GI	none	Score	42
Exons	1677..1703, 1750..1932, 1767..1934, 1767..1928		

Seq. No.	45574	Seq. ID	OJ000121_13.0317.C14
Gene No.	96405	Strand	-
Start	2245	End	14853
Name	OJ000121_13.0317.C14.o2.gs	Method	GENSCAN
Start	2245	End	4193
GI	none	Score	.58
Exons	2245..2503, 2856..3296, 3396..3591, 4130..4193		

Seq. No.	45575	Seq. ID	OJ000121_13.0317.C15
Gene No.	96406	Strand	+
Start	2283	End	4446
Name	OJ000121_13.0317.C15.o2.gs	Method	GENSCAN
Start	2283	End	4446
GI	none	Score	.6
Exons	2283..2393, 3206..3430, 3932..4074, 4401..4446		

Seq. No.	45575	Seq. ID	OJ000121_13.0317.C15
Gene No.	96407	Strand	+
Start	4411	End	6758
Name	OJ000121_13.0317.C15.o1.np	Method	AAT/NAP
Start	4411	End	6740
GI	4680338	Score	669
Exons	4411..4442, 5625..6740		
GI Descrip.	(AF128457) hypothetical protein [Oryza sativa subsp. indica]		

Seq. No.	45575	Seq. ID	OJ000121_13.0317.C15
Gene No.	96407	Strand	+
Start	4411	End	6758
Name	OJ000121_13.0317.C15.o3.gs	Method	GENSCAN
Start	5452	End	6758
GI	none	Score	.45
Exons	5452..5498, 5636..6758		

Seq. No.	45575	Seq. ID	OJ000121_13.0317.C15
Gene No.	96408	Strand	-
Start	62	End	549
Name	OJ000121_13.0317.C15.o1.gs	Method	GENSCAN
Start	62	End	549
GI	none	Score	.93
Exons	62..140, 224..349, 392..549		

Seq. No.	45575	Seq. ID	OJ000121_13.0317.C15
Gene No.	96409	Strand	-
Start	7088	End	8109
Name	OJ000121_13.0317.C15.o1.gp	Method	AAT/GAP
Start	7088	End	8109
GI	3409_1.R1084	Score	1000
Exons	7088..7400, 7827..8109		
GI Descrip.	'3281868/emb CAA19764  7.0e-47 (AL031004) putative protein [Arabidopsis thaliana]'		

Seq. No.	45575	Seq. ID	OJ000121_13.0317.C15
Gene No.	96410	Strand	-
Start	8501	End	8764
Name	OJ000121_13.0317.C15.o1.tm	Method	TBLASTX:Maize
Start	5705	End	6755
GI	none	Score	135
Exons	5705..5866, 5715..5876, 6189..6350, 6254..6349, 6372..6455, 6377..6427, 6462..6755, 6560..6745		

Seq. No.	45575	Seq. ID	OJ000121_13.0317.C15
Gene No.	96410	Strand	-
Start	8501	End	8764
Name	OJ000121_13.0317.C15.o1.ts	Method	TBLASTX:Soybean
Start	6189	End	6773
GI	none	Score	178
Exons	6189..6359, 6248..6349, 6372..6455, 6380..6427, 6462..6773, 6560..6736		

Seq. No.	45575	Seq. ID	OJ000121_13.0317.C15
Gene No.	96410	Strand	-
Start	8501	End	8764
Name	OJ000121_13.0317.C15.o1.tc	Method	TBLASTX:Cress
Start	6372	End	6748
GI	none	Score	85
Exons	6372..6455, 6381..6452, 6465..6737, 6536..6748		

Seq. No.	45575	Seq. ID	OJ000121_13.0317.C15
Gene No.	96410	Strand	-
Start	8501	End	8764
Name	OJ000121_13.0317.C15.o1.tw	Method	TBLASTX:Wheat
Start	6378	End	6737
GI	none	Score	74
Exons	6378..6461, 6459..6632, 6648..6737		

Seq. No.	45575	Seq. ID	OJ000121_13.0317.C15
Gene No.	96410	Strand	-
Start	8501	End	8764
Name	OJ000121_13.0317.C15.o2.gp	Method	AAT/GAP
Start	8501	End	8764
GI	23551_1.R1084	Score	486
Exons	8501..8764		
GI Descrip.	'11957/emb X15901 CHOSXX 1.0e-166 Rice complete chloroplast genome'		

Seq. No.	45576	Seq. ID	OJ000251_10.0308.C1
Gene No.	96411	Strand	+

Start 546  
 Name OJ000251\_10.0308.C1.o1.gs  
 Start 546  
 GI none  
 Exons 546..795

End 795  
 Method GENSCAN  
 End 795  
 Score .81

Seq. No. 45577  
 Gene No. 96413  
 Start 101  
 Name OJ000251\_10.0308.C5.o1.gs  
 Start 101  
 GI none  
 Exons 101..320

Seq. ID OJ000251\_10.0308.C5  
 Strand +  
 End 320  
 Method GENSCAN  
 End 320  
 Score .42

Seq. No. 45578  
 Gene No. 96414  
 Start 169  
 Name OJ000251\_10.0308.C6.o1.gs  
 Start 169  
 GI none  
 Exons 169..324

Seq. ID OJ000251\_10.0308.C6  
 Strand -  
 End 324  
 Method GENSCAN  
 End 324  
 Score .75

Seq. No. 45579  
 Gene No. 96415  
 Start 844  
 Name OJ000251\_10.0308.C8.o1.gs  
 Start 844  
 GI none  
 Exons 844..1137

Seq. ID OJ000251\_10.0308.C8  
 Strand +  
 End 1137  
 Method GENSCAN  
 End 1137  
 Score .64

Seq. No. 45580  
 Gene No. 96416  
 Start 416  
 Name OJ000251\_10.0308.C9.o1.gs  
 Start 416  
 GI none  
 Exons 416..548

Seq. ID OJ000251\_10.0308.C9  
 Strand +  
 End 548  
 Method GENSCAN  
 End 548  
 Score .6

Seq. No. 45580  
 Gene No. 96417  
 Start 1405  
 Name OJ000251\_10.0308.C9.o2.gs  
 Start 1405  
 GI none  
 Exons 1405..1649, 1669..1732

Seq. ID OJ000251\_10.0308.C9  
 Strand -  
 End 1732  
 Method GENSCAN  
 End 1732  
 Score .55

Seq. No. 45581  
 Gene No. 96418  
 Start 1  
 Name OJ000251\_10.0308.C12.o1.np  
 Start 1  
 GI 626375  
 Exons 1..37, 229..311, 408..464

Seq. ID OJ000251\_10.0308.C12  
 Strand +  
 End 464  
 Method AAT/NAP  
 End 464  
 Score 75

GI Descrip. probable membrane protein YIL100c-a - yeast (Saccharomyces cerevisiae) gi|558706|emb|CAA86280| (Z38125) orf, len: 112, CAI: 0.07, overlapped by orf 36949..36826 qv [Saccharomyces cerevisiae]



Seq. No.	45581	Seq. ID	OJ000251_10.0308.C12
Gene No.	96419	Strand	-
Start	484	End	4105
Name	OJ000251_10.0308.C12.o2.np	Method	AAT/NAP
Start	484	End	4105
GI	4680204	Score	879
Exons	484..647, 754..814, 1098..1233, 1323..1496, 1585..2633, 2726..4105		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	45581	Seq. ID	OJ000251_10.0308.C12
Gene No.	96419	Strand	-
Start	484	End	4105
Name	OJ000251_10.0308.C12.o1.gs	Method	GENSCAN
Start	754	End	4090
GI	none	Score	.48
Exons	754..852, 949..1021, 1123..1233, 1323..1496, 1585..2270, 2846..3149, 3393..4090		

Seq. No.	45581	Seq. ID	OJ000251_10.0308.C12
Gene No.	96419	Strand	-
Start	484	End	4105
Name	OJ000251_10.0308.C12.o2.tw	Method	TBLASTX:Wheat
Start	1155	End	1809
GI	none	Score	49
Exons	1155..1235, 1162..1236, 1310..1516, 1313..1507, 1741..1809		

Seq. No.	45581	Seq. ID	OJ000251_10.0308.C12
Gene No.	96419	Strand	-
Start	484	End	4105
Name	OJ000251_10.0308.C12.o1.tw	Method	TBLASTX:Wheat
Start	3095	End	3496
GI	none	Score	76
Exons	3095..3265, 3096..3170, 3255..3395, 3260..3496, 3302..3496		

Seq. No.	45582	Seq. ID	OJ000251_10.0308.C13
Gene No.	96420	Strand	+
Start	4078	End	7322
Name	OJ000251_10.0308.C13.o2.np	Method	AAT/NAP
Start	4078	End	7322
GI	5922620	Score	305
Exons	4078..4248, 5012..5082, 5650..5904, 7099..7322		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016853 dbj BAA85196.1  (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	45582	Seq. ID	OJ000251_10.0308.C13
Gene No.	96420	Strand	+
Start	4078	End	7322
Name	OJ000251_10.0308.C13.o2.gs	Method	GENSCAN
Start	4926	End	6761
GI	none	Score	.62
Exons	4926..5123, 5171..5633, 6388..6761		

Seq. No.	45582	Seq. ID	OJ000251_10.0308.C13
Gene No.	96421	Strand	-
Start	36	End	5387
Name	OJ000251_10.0308.C13.o1.gp	Method	AAT/GAP
Start	36	End	4059
GI	342_1.R1084	Score	6232
Exons	36..4059		
GI Descrip.	'4574406/gb AAD24042.1  0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	45582	Seq. ID	OJ000251_10.0308.C13
Gene No.	96421	Strand	-
Start	36	End	5387
Name	OJ000251_10.0308.C13.o1.gs	Method	GENSCAN
Start	731	End	4063
GI	none	Score	.52
Exons	731..1018, 1068..1322, 1724..2325, 2458..2728, 2792..2947, 3251..4063		

Seq. No.	45582	Seq. ID	OJ000251_10.0308.C13
Gene No.	96421	Strand	-
Start	36	End	5387
Name	OJ000251_10.0308.C13.o1.np	Method	AAT/NAP
Start	752	End	5387
GI	4680203	Score	3204
Exons	752..1729, 2006..2236, 2390..4063, 5363..5387		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	45582	Seq. ID	OJ000251_10.0308.C13
Gene No.	96422	Strand	-
Start	7461	End	8805
Name	OJ000251_10.0308.C13.o3.np	Method	AAT/NAP
Start	7461	End	8805
GI	6630699	Score	86
Exons	7461..7540, 8745..8805		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1  (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	45582	Seq. ID	OJ000251_10.0308.C13
Gene No.	96423	Strand	-
Start	8936	End	9337
Name	OJ000251_10.0308.C13.o1.tw	Method	TBLASTX:Wheat
Start	806	End	2128
GI	none	Score	50
Exons	806..898, 807..872, 887..955, 903..956, 973..1053, 981..1094, 982..1122, 1069..1164, 1101..1160, 1166..1231, 1167..1211, 1171..1212, 1206..1649, 1222..1650, 1238..1657, 1644..2123, 1678..1797, 1697..2122, 1943..2128		

Seq. No.	45582	Seq. ID	OJ000251_10.0308.C13
Gene No.	96423	Strand	-
Start	8936	End	9337
Name	OJ000251_10.0308.C13.o2.tc	Method	TBLASTX:Cress
Start	1389	End	1835
GI	none	Score	111
Exons	1389..1541, 1389..1649, 1393..1650, 1399..1650, 1644..1835,		

1678..1797, 1697..1831

Seq. No.	45582	Seq. ID	OJ000251_10.0308.C13
Gene No.	96423	Strand	-
Start	8936	End	9337
Name	OJ000251_10.0308.C13.o2.tm	Method	TBLASTX:Maize
Start	1766	End	2080
GI	none	Score	126
Exons	1766..2080, 1767..2063		

Seq. No.	45582	Seq. ID	OJ000251_10.0308.C13
Gene No.	96423	Strand	-
Start	8936	End	9337
Name	OJ000251_10.0308.C13.o3.tw	Method	TBLASTX:Wheat
Start	2129	End	2533
GI	none	Score	65
Exons	2129..2209, 2130..2210, 2243..2461, 2283..2465, 2471..2533		

Seq. No.	45582	Seq. ID	OJ000251_10.0308.C13
Gene No.	96423	Strand	-
Start	8936	End	9337
Name	OJ000251_10.0308.C13.o2.ts	Method	TBLASTX:Soybean
Start	2567	End	2809
GI	none	Score	200
Exons	2567..2809		

Seq. No.	45582	Seq. ID	OJ000251_10.0308.C13
Gene No.	96423	Strand	-
Start	8936	End	9337
Name	OJ000251_10.0308.C13.o1.tm	Method	TBLASTX:Maize
Start	2639	End	3097
GI	none	Score	94
Exons	2639..2833, 2843..3097, 2843..3085		

Seq. No.	45582	Seq. ID	OJ000251_10.0308.C13
Gene No.	96423	Strand	-
Start	8936	End	9337
Name	OJ000251_10.0308.C13.o2.tw	Method	TBLASTX:Wheat
Start	2673	End	3143
GI	none	Score	159
Exons	2673..2879, 2673..2777, 2678..2881, 2678..2902, 2880..2972, 2882..2980, 2883..2975, 2984..3088, 2988..3089, 3086..3142, 3090..3143		

Seq. No.	45582	Seq. ID	OJ000251_10.0308.C13
Gene No.	96423	Strand	-
Start	8936	End	9337
Name	OJ000251_10.0308.C13.o1.tc	Method	TBLASTX:Cress
Start	2930	End	3272
GI	none	Score	64
Exons	2930..3271, 2949..3077, 3126..3272		

Seq. No.	45582	Seq. ID	OJ000251_10.0308.C13
Gene No.	96423	Strand	-
Start	8936	End	9337
Name	OJ000251_10.0308.C13.o1.ts	Method	TBLASTX:Soybean
Start	3011	End	3439

GI	none	Score	91
Exons	3011..3307, 3024..3275, 3365..3439, 3386..3439		
Seq. No.	45582	Seq. ID	OJ000251_10.0308.C13
Gene No.	96423	Strand	-
Start	8936	End	9337
Name	OJ000251_10.0308.C13.o4.tw	Method	TBLASTX:Wheat
Start	3361	End	3757
GI	none	Score	180
Exons	3361..3603, 3371..3622, 3372..3614, 3605..3757, 3619..3738		
Seq. No.	45582	Seq. ID	OJ000251_10.0308.C13
Gene No.	96423	Strand	-
Start	8936	End	9337
Name	OJ000251_10.0308.C13.o3.gs	Method	GENSCAN
Start	8936	End	9337
GI	none	Score	.98
Exons	8936..9121, 9296..9337		
Seq. No.	45583	Seq. ID	OJ000251_10.0308.C14
Gene No.	96424	Strand	+
Start	738	End	3294
Name	OJ000251_10.0308.C14.o1.np	Method	AAT/NAP
Start	738	End	3294
GI	7452044	Score	850
Exons	738..834, 2203..3294		
GI Descrip.	hypothetical protein F27B13.20 - Arabidopsis thaliana gi 4914402 emb CAB43653.1  (AL050352) hypothetical protein [Arabidopsis thaliana] gi 7269877 emb CAB79736.1  (AL161575) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	45583	Seq. ID	OJ000251_10.0308.C14
Gene No.	96425	Strand	-
Start	501	End	1532
Name	OJ000251_10.0308.C14.o1.gs	Method	GENSCAN
Start	501	End	1532
GI	none	Score	.49
Exons	501..562, 1220..1532		
Seq. No.	45583	Seq. ID	OJ000251_10.0308.C14
Gene No.	96426	Strand	-
Start	12465	End	17705
Name	OJ000251_10.0308.C14.o1.ts	Method	TBLASTX:Soybean
Start	2235	End	3183
GI	none	Score	327
Exons	2235..2300, 2283..2552, 2293..2550, 2593..2877, 2598..2672, 2751..2831, 2884..2934, 2887..2967, 3064..3183		
Seq. No.	45583	Seq. ID	OJ000251_10.0308.C14
Gene No.	96426	Strand	-
Start	12465	End	17705
Name	OJ000251_10.0308.C14.o1.tm	Method	TBLASTX:Maize
Start	2262	End	3273
GI	none	Score	361
Exons	2262..2546, 2263..2550, 2568..2774, 2569..2769, 2748..2849, 2770..2868, 2887..2967, 2901..2960, 3064..3183, 3066..3110, 3205..3273, 3210..3272		

Seq. No.	45583	Seq. ID	OJ000251_10.0308.C14
Gene No.	96426	Strand	-
Start	12465	End	17705
Name	OJ000251_10.0308.C14.o2.tc	Method	TBLASTX:Cress
Start	2292	End	2538
GI	none	Score	281
Exons	2292..2537, 2293..2538		

Seq. No.	45583	Seq. ID	OJ000251_10.0308.C14
Gene No.	96426	Strand	-
Start	12465	End	17705
Name	OJ000251_10.0308.C14.o1.tw	Method	TBLASTX:Wheat
Start	2341	End	3306
GI	none	Score	273
Exons	2341..2550, 2349..2588, 2539..2586, 2599..2868, 2613..2840, 2890..2967, 2890..2934, 2901..2960, 3064..3183, 3064..3096, 3066..3110, 3210..3272, 3211..3306		

Seq. No.	45583	Seq. ID	OJ000251_10.0308.C14
Gene No.	96426	Strand	-
Start	12465	End	17705
Name	OJ000251_10.0308.C14.o1.tc	Method	TBLASTX:Cress
Start	2593	End	3273
GI	none	Score	253
Exons	2593..2877, 2616..2840, 2887..2967, 2910..2960, 3064..3189, 3066..3110, 3190..3273		

Seq. No.	45583	Seq. ID	OJ000251_10.0308.C14
Gene No.	96426	Strand	-
Start	12465	End	17705
Name	OJ000251_10.0308.C14.o3.gs	Method	GENSCAN
Start	12465	End	17652
GI	none	Score	.5
Exons	12465..12549, 13566..13726, 14169..14259, 15296..15422, 16034..16936, 17026..17367, 17479..17652		

Seq. No.	45583	Seq. ID	OJ000251_10.0308.C14
Gene No.	96426	Strand	-
Start	12465	End	17705
Name	OJ000251_10.0308.C14.o2.np	Method	AAT/NAP
Start	16054	End	17705
GI	6815097	Score	2321
Exons	16054..16819, 16958..17705		
GI Descrip.	(AP001081) Similar to putative copia polyprotein (AC006248) [Oryza sativa]		

Seq. No.	45583	Seq. ID	OJ000251_10.0308.C14
Gene No.	96426	Strand	-
Start	12465	End	17705
Name	OJ000251_10.0308.C14.o3.ts	Method	TBLASTX:Soybean
Start	16197	End	16562
GI	none	Score	76
Exons	16197..16562, 16207..16404		

Seq. No.	45583	Seq. ID	OJ000251_10.0308.C14
Gene No.	96426	Strand	-

Start 12465  
 Name OJ000251\_10.0308.C14.o2.tm  
 Start 16221  
 GI none  
 Exons 16221..16544, 16222..16545

End 17705  
 Method TBLASTX:Maize  
 End 16545  
 Score 217

Seq. No. 45583  
 Gene No. 96426  
 Start 12465  
 Name OJ000251\_10.0308.C14.o2.tw  
 Start 16533  
 GI none  
 Exons 16533..16613, 16887..16985, 17119..17172, 17241..17312

Seq. ID OJ000251\_10.0308.C14  
 Strand -  
 End 17705  
 Method TBLASTX:Wheat  
 End 17332  
 Score 46

Seq. No. 45583  
 Gene No. 96426  
 Start 12465  
 Name OJ000251\_10.0308.C14.o3.tm  
 Start 16875  
 GI none  
 Exons 16875..16961, 16991..17062, 17099..17323

Seq. ID OJ000251\_10.0308.C14  
 Strand -  
 End 17705  
 Method TBLASTX:Maize  
 End 17323  
 Score 137

Seq. No. 45583  
 Gene No. 96426  
 Start 12465  
 Name OJ000251\_10.0308.C14.o2.ts  
 Start 16991  
 GI 5509260  
 Exons 16991..17062, 17087..17389, 17241..17369, 17288..17371  
 GI Descrip. -

Seq. ID OJ000251\_10.0308.C14  
 Strand -  
 End 17705  
 Method TBLASTX:Soybean  
 End 17389  
 Score 64

Seq. No. 45584  
 Gene No. 96427  
 Start 3445  
 Name OJ000251\_10.0308.C15.o2.np  
 Start 3445  
 GI 6815096  
 Exons 3445..3569, 3640..3749, 3812..4044  
 GI Descrip. (AP001081) hypothetical protein [Oryza sativa]

Seq. ID OJ000251\_10.0308.C15  
 Strand +  
 End 4044  
 Method AAT/NAP  
 End 4044  
 Score 635

Seq. No. 45584  
 Gene No. 96428  
 Start 1  
 Name OJ000251\_10.0308.C15.o1.np  
 Start 1  
 GI 6815097  
 Exons 1..527, 642..765, 840..1285, 1792..2679  
 GI Descrip. (AP001081) Similar to putative copia polyprotein (AC006248) [Oryza sativa]

Seq. ID OJ000251\_10.0308.C15  
 Strand -  
 End 2763  
 Method AAT/NAP  
 End 2679  
 Score 3104

Seq. No. 45584  
 Gene No. 96428  
 Start 1  
 Name OJ000251\_10.0308.C15.o1.gs  
 Start 1669  
 GI none

Seq. ID OJ000251\_10.0308.C15  
 Strand -  
 End 2763  
 Method GENSCAN  
 End 2763  
 Score 1

Exons 1669..2763

Seq. No.	45584	Seq. ID	OJ000251_10.0308.C15
Gene No.	96429	Strand	-
Start	5853	End	6187
Name	OJ000251_10.0308.C15.o3.gs	Method	GENSCAN
Start	5853	End	6187
GI	none	Score	.86
Exons	5853..6005, 6170..6187		

Seq. No.	45584	Seq. ID	OJ000251_10.0308.C15
Gene No.	96430	Strand	-
Start	7656	End	7781
Name	OJ000251_10.0308.C15.o1.tc	Method	TBLASTX:Cress
Start	2323	End	2580
GI	none	Score	191
Exons	2323..2580		

Seq. No.	45584	Seq. ID	OJ000251_10.0308.C15
Gene No.	96430	Strand	-
Start	7656	End	7781
Name	OJ000251_10.0308.C15.o4.gs	Method	GENSCAN
Start	7656	End	7781
GI	none	Score	.78
Exons	7656..7781		

Seq. No.	45585	Seq. ID	OJ000251_10.0308.C16
Gene No.	96431	Strand	+
Start	4693	End	5278
Name	OJ000251_10.0308.C16.o2.np	Method	AAT/NAP
Start	4693	End	5278
GI	4680203	Score	491
Exons	4693..5278		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	45585	Seq. ID	OJ000251_10.0308.C16
Gene No.	96431	Strand	+
Start	4693	End	5278
Name	OJ000251_10.0308.C16.o3.gs	Method	GENSCAN
Start	4693	End	5152
GI	none	Score	.85
Exons	4693..5152		

Seq. No.	45585	Seq. ID	OJ000251_10.0308.C16
Gene No.	96431	Strand	+
Start	4693	End	5278
Name	OJ000251_10.0308.C16.o1.gp	Method	AAT/GAP
Start	4697	End	5278
GI	342_1.R1084	Score	782
Exons	4697..5278		
GI Descrip.	'4574406/gb AAD24042.1  0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	45585	Seq. ID	OJ000251_10.0308.C16
Gene No.	96432	Strand	-
Start	1038	End	1968
Name	OJ000251_10.0308.C16.o1.gs	Method	GENSCAN

Start 1038  
 GI none  
 Exons 1038..1250, 1912..1968

End 1968  
 Score .64

Seq. No. 45585 Seq. ID OJ000251\_10.0308.C16  
 Gene No. 96433 Strand -  
 Start 3168 End 5278  
 Name OJ000251\_10.0308.C16.o1.np Method AAT/NAP  
 Start 3164 End 5278  
 GI 7452044 Score 358  
 Exons 3164..3619, 3646..3884, 5170..5278  
 GI Descrip. hypothetical protein F27B13.20 - Arabidopsis thaliana  
 gi|4914402|emb|CAB43653.1| (AL050352) hypothetical protein  
 [Arabidopsis thaliana] gi|7269877|emb|CAB79736.1| (AL161575)  
 hypothetical protein [Arabidopsis thaliana]

Seq. No. 45585 Seq. ID OJ000251\_10.0308.C16  
 Gene No. 96433 Strand -  
 Start 3168 End 5278  
 Name OJ000251\_10.0308.C16.o2.gs Method GENSCAN  
 Start 3168 End 3938  
 GI none Score 1  
 Exons 3168..3938

Seq. No. 45585 Seq. ID OJ000251\_10.0308.C16  
 Gene No. 96433 Strand -  
 Start 3168 End 5278  
 Name OJ000251\_10.0308.C16.o1.tc Method TBLASTX:Cress  
 Start 3219 End 3845  
 GI none Score 96  
 Exons 3219..3260, 3324..3407, 3501..3599, 3645..3845, 3646..3780

Seq. No. 45585 Seq. ID OJ000251\_10.0308.C16  
 Gene No. 96433 Strand -  
 Start 3168 End 5278  
 Name OJ000251\_10.0308.C16.o1.ts Method TBLASTX:Soybean  
 Start 3303 End 3845  
 GI none Score 79  
 Exons 3303..3407, 3501..3581, 3598..3735, 3612..3845

Seq. No. 45585 Seq. ID OJ000251\_10.0308.C16  
 Gene No. 96433 Strand -  
 Start 3168 End 5278  
 Name OJ000251\_10.0308.C16.o1.tm Method TBLASTX:Maize  
 Start 3321 End 3845  
 GI none Score 46  
 Exons 3321..3407, 3357..3410, 3501..3599, 3508..3603, 3618..3716,  
 3625..3738, 3712..3828, 3717..3845

Seq. No. 45585 Seq. ID OJ000251\_10.0308.C16  
 Gene No. 96433 Strand -  
 Start 3168 End 5278  
 Name OJ000251\_10.0308.C16.o2.tw Method TBLASTX:Wheat  
 Start 3321 End 3845  
 GI none Score 52  
 Exons 3321..3407, 3343..3405, 3501..3632, 3508..3603, 3618..3845,  
 3625..3786



Seq. No.	45585	Seq. ID	OJ000251_10.0308.C16
Gene No.	96433	Strand	-
Start	3168	End	5278
Name	OJ000251_10.0308.C16.o1.tw	Method	TBLASTX:Wheat
Start	4999	End	5277
GI	none	Score	91
Exons	4999..5151, 5018..5137, 5134..5277, 5142..5273		

Seq. No.	45586	Seq. ID	OJ000251_10.0308.C17
Gene No.	96434	Strand	+
Start	1	End	1181
Name	OJ000251_10.0308.C17.o1.np	Method	AAT/NAP
Start	1	End	1181
GI	6742729	Score	1735
Exons	1..840, 868..1181		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	45586	Seq. ID	OJ000251_10.0308.C17
Gene No.	96435	Strand	+
Start	4389	End	8025
Name	OJ000251_10.0308.C17.o3.np	Method	AAT/NAP
Start	4389	End	8025
GI	4680204	Score	831
Exons	4389..5766, 5858..6927, 7016..7189, 7283..7451, 7844..8025		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	45586	Seq. ID	OJ000251_10.0308.C17
Gene No.	96436	Strand	-
Start	7983	End	9300
Name	OJ000251_10.0308.C17.o1.tw	Method	TBLASTX:Wheat
Start	316	End	1664
GI	none	Score	72
Exons	316..501, 321..422, 321..878, 322..822, 839..1234, 849..1250, 886..1266, 1241..1306, 1260..1301, 1261..1305, 1308..1403, 1312..1371, 1350..1496, 1351..1497, 1502..1555, 1503..1571, 1572..1664, 1598..1663		

Seq. No.	45586	Seq. ID	OJ000251_10.0308.C17
Gene No.	96436	Strand	-
Start	7983	End	9300
Name	OJ000251_10.0308.C17.o2.tm	Method	TBLASTX:Maize
Start	364	End	678
GI	none	Score	304
Exons	364..678, 375..650, 448..678		

Seq. No.	45586	Seq. ID	OJ000251_10.0308.C17
Gene No.	96436	Strand	-
Start	7983	End	9300
Name	OJ000251_10.0308.C17.o1.tc	Method	TBLASTX:Cress
Start	609	End	1085
GI	none	Score	197
Exons	609..878, 613..822, 849..1085, 886..1083		

Seq. No.	45586	Seq. ID	OJ000251_10.0308.C17
Gene No.	96436	Strand	-
Start	7983	End	9300

Name	OJ000251_10.0308.C17.o4.tw	Method	TBLASTX:Wheat
Start	4975	End	5376
GI	none	Score	211
Exons	4975..5211, 4975..5169, 5206..5376, 5259..5375		
Seq. No.	45586	Seq. ID	OJ000251_10.0308.C17
Gene No.	96436	Strand	-
Start	7983	End	9300
Name	OJ000251_10.0308.C17.o5.tw	Method	TBLASTX:Wheat
Start	5380	End	6070
GI	none	Score	64
Exons	5380..5457, 5698..5769, 5852..6070		
Seq. No.	45586	Seq. ID	OJ000251_10.0308.C17
Gene No.	96436	Strand	-
Start	7983	End	9300
Name	OJ000251_10.0308.C17.o2.gs	Method	GENSCAN
Start	7983	End	9300
GI	none	Score	.77
Exons	7983..8040, 8514..8630, 8666..9300		
Seq. No.	45586	Seq. ID	OJ000251_10.0308.C17
Gene No.	96436	Strand	-
Start	7983	End	9300
Name	OJ000251_10.0308.C17.o3.tw	Method	TBLASTX:Wheat
Start	8522	End	8847
GI	none	Score	56
Exons	8522..8587, 8529..8585, 8586..8699, 8600..8701, 8701..8847, 8702..8839		
Seq. No.	45586	Seq. ID	OJ000251_10.0308.C17
Gene No.	96436	Strand	-
Start	7983	End	9300
Name	OJ000251_10.0308.C17.o1.tm	Method	TBLASTX:Maize
Start	8522	End	8979
GI	none	Score	97
Exons	8522..8617, 8529..8618, 8546..8701, 8547..8699, 8701..8979, 8702..8902		
Seq. No.	45586	Seq. ID	OJ000251_10.0308.C17
Gene No.	96436	Strand	-
Start	7983	End	9300
Name	OJ000251_10.0308.C17.o1.ts	Method	TBLASTX:Soybean
Start	8522	End	8961
GI	none	Score	49
Exons	8522..8593, 8541..8588, 8603..8701, 8699..8905, 8701..8895, 8888..8953, 8920..8961		
Seq. No.	45586	Seq. ID	OJ000251_10.0308.C17
Gene No.	96436	Strand	-
Start	7983	End	9300
Name	OJ000251_10.0308.C17.o2.tc	Method	TBLASTX:Cress
Start	8651	End	8896
GI	none	Score	45
Exons	8651..8701, 8652..8699, 8701..8895, 8702..8896		
Seq. No.	45587	Seq. ID	OJ000251_10.0308.C18

Gene No.	96437	Strand	+
Start	573	End	3048
Name	OJ000251_10.0308.C18.o1.gs	Method	GENSCAN
Start	573	End	3048
GI	none	Score	.62
Exons	573..603, 1579..1717, 1808..1948, 2053..2337, 2986..3048		
Seq. No.	45587	Seq. ID	OJ000251_10.0308.C18
Gene No.	96438	Strand	+
Start	5539	End	10465
Name	OJ000251_10.0308.C18.o2.gs	Method	GENSCAN
Start	5539	End	10465
GI	none	Score	.48
Exons	5539..5731, 5879..5984, 6893..6922, 9586..9741, 9770..9900, 10113..10465		
Seq. No.	45587	Seq. ID	OJ000251_10.0308.C18
Gene No.	96439	Strand	+
Start	12695	End	13078
Name	OJ000251_10.0308.C18.o2.gp	Method	AAT/GAP
Start	12695	End	13078
GI	uC-osflcyp033a04b1	Score	653
Exons	12695..13078		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	45587	Seq. ID	OJ000251_10.0308.C18
Gene No.	96440	Strand	-
Start	11074	End	14577
Name	OJ000251_10.0308.C18.o3.gs	Method	GENSCAN
Start	11074	End	13492
GI	none	Score	.83
Exons	11074..11940, 13424..13492		
Seq. No.	45587	Seq. ID	OJ000251_10.0308.C18
Gene No.	96440	Strand	-
Start	11074	End	14577
Name	OJ000251_10.0308.C18.o1.np	Method	AAT/NAP
Start	12624	End	14577
GI	4680186	Score	210
Exons	12624..12828, 14540..14577		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		
Seq. No.	45587	Seq. ID	OJ000251_10.0308.C18
Gene No.	96440	Strand	-
Start	11074	End	14577
Name	OJ000251_10.0308.C18.o4.gs	Method	GENSCAN
Start	14176	End	14489
GI	none	Score	.63
Exons	14176..14489		
Seq. No.	45588	Seq. ID	OJ000251_10.0308.C19
Gene No.	96441	Strand	+
Start	1	End	1310
Name	OJ000251_10.0308.C19.o1.np	Method	AAT/NAP
Start	1	End	1310
GI	6630699	Score	79

Exons 1..27, 1233..1310  
 GI Descrip. (AP000969) hypothetical protein [Oryza sativa]  
 gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein  
 [Oryza sativa]

Seq. No.	45588	Seq. ID	OJ000251_10.0308.C19
Gene No.	96442	Strand	+
Start	1461	End	3441
Name	OJ000251_10.0308.C19.o2.np	Method	AAT/NAP
Start	1461	End	3441
GI	6539570	Score	177
Exons	1461..1655, 1826..1892, 3407..3441		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	45588	Seq. ID	OJ000251_10.0308.C19
Gene No.	96443	Strand	+
Start	3672	End	8034
Name	OJ000251_10.0308.C19.o3.np	Method	AAT/NAP
Start	3672	End	8034
GI	4680203	Score	1706
Exons	3672..5390, 5547..5771, 6048..6806, 8014..8034		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	45588	Seq. ID	OJ000251_10.0308.C19
Gene No.	96444	Strand	+
Start	8754	End	14228
Name	OJ000251_10.0308.C19.o3.gs	Method	GENSCAN
Start	8754	End	14228
GI	none	Score	.89
Exons	8754..8951, 9042..11275, 11361..11612, 11893..11974, 12249..12415, 12717..12884, 13913..13962, 14155..14228		

Seq. No.	45588	Seq. ID	OJ000251_10.0308.C19
Gene No.	96445	Strand	+
Start	15079	End	16043
Name	OJ000251_10.0308.C19.o4.gs	Method	GENSCAN
Start	15079	End	16043
GI	none	Score	.54
Exons	15079..15135, 15834..16043		

Seq. No.	45588	Seq. ID	OJ000251_10.0308.C19
Gene No.	96446	Strand	-
Start	7560	End	8117
Name	OJ000251_10.0308.C19.o2.gs	Method	GENSCAN
Start	7560	End	8117
GI	none	Score	.98
Exons	7560..8117		

Seq. No.	45588	Seq. ID	OJ000251_10.0308.C19
Gene No.	96447	Strand	-
Start	18231	End	19828
Name	OJ000251_10.0308.C19.o2.tw	Method	TBLASTX:Wheat
Start	4152	End	4745
GI	none	Score	229
Exons	4152..4442, 4154..4444, 4500..4616, 4503..4601, 4620..4745, 4637..4744		

Seq. No.	45588	Seq. ID	OJ000251_10.0308.C19
Gene No.	96447	Strand	-
Start	18231	End	19828
Name	OJ000251_10.0308.C19.o1.ts	Method	TBLASTX:Soybean
Start	4170	End	4442
GI	none	Score	292
Exons	4170..4442, 4187..4435		

Seq. No.	45588	Seq. ID	OJ000251_10.0308.C19
Gene No.	96447	Strand	-
Start	18231	End	19828
Name	OJ000251_10.0308.C19.o2.ts	Method	TBLASTX:Soybean
Start	4485	End	4760
GI	none	Score	221
Exons	4485..4760, 4520..4759		

Seq. No.	45588	Seq. ID	OJ000251_10.0308.C19
Gene No.	96447	Strand	-
Start	18231	End	19828
Name	OJ000251_10.0308.C19.o2.tc	Method	TBLASTX:Cress
Start	4509	End	4841
GI	none	Score	288
Exons	4509..4841, 4595..4645, 4679..4786		

Seq. No.	45588	Seq. ID	OJ000251_10.0308.C19
Gene No.	96447	Strand	-
Start	18231	End	19828
Name	OJ000251_10.0308.C19.o2.tm	Method	TBLASTX:Maize
Start	4647	End	5132
GI	none	Score	102
Exons	4647..4751, 4655..4750, 4754..4846, 4758..4847, 4915..4950, 4944..4991, 4992..5039, 5039..5128, 5043..5132		

Seq. No.	45588	Seq. ID	OJ000251_10.0308.C19
Gene No.	96447	Strand	-
Start	18231	End	19828
Name	OJ000251_10.0308.C19.o3.tw	Method	TBLASTX:Wheat
Start	4746	End	5081
GI	none	Score	57
Exons	4746..4787, 4791..4889, 4793..4888, 4935..5033, 4946..5017, 5043..5081		

Seq. No.	45588	Seq. ID	OJ000251_10.0308.C19
Gene No.	96447	Strand	-
Start	18231	End	19828
Name	OJ000251_10.0308.C19.o1.tm	Method	TBLASTX:Maize
Start	5637	End	6020
GI	none	Score	59
Exons	5637..5705, 5705..6019, 5706..6020		

Seq. No.	45588	Seq. ID	OJ000251_10.0308.C19
Gene No.	96447	Strand	-
Start	18231	End	19828
Name	OJ000251_10.0308.C19.o1.tw	Method	TBLASTX:Wheat
Start	5661	End	6794
GI	none	Score	551
Exons	5661..6377, 5714..6289, 6386..6568, 6396..6584, 6561..6662,		

6572..6691, 6693..6794, 6695..6787

Seq. No.	45588	Seq. ID	OJ000251_10.0308.C19
Gene No.	96447	Strand	-
Start	18231	End	19828
Name	OJ000251_10.0308.C19.o1.tc	Method	TBLASTX:Cress
Start	5952	End	6377
GI	none	Score	317
Exons	5952..6377, 5960..6289		

Seq. No.	45588	Seq. ID	OJ000251_10.0308.C19
Gene No.	96447	Strand	-
Start	18231	End	19828
Name	OJ000251_10.0308.C19.o3.tm	Method	TBLASTX:Maize
Start	6270	End	6560
GI	none	Score	146
Exons	6270..6440, 6318..6434, 6452..6559, 6453..6560		

Seq. No.	45588	Seq. ID	OJ000251_10.0308.C19
Gene No.	96447	Strand	-
Start	18231	End	19828
Name	OJ000251_10.0308.C19.o3.ts	Method	TBLASTX:Soybean
Start	6642	End	6854
GI	none	Score	187
Exons	6642..6854, 6642..6800		

Seq. No.	45588	Seq. ID	OJ000251_10.0308.C19
Gene No.	96447	Strand	-
Start	18231	End	19828
Name	OJ000251_10.0308.C19.o5.gs	Method	GENSCAN
Start	18231	End	19828
GI	none	Score	.81
Exons	18231..18566, 18850..19032, 19396..19559, 19657..19828		

Seq. No.	45589	Seq. ID	OJ000251_10.0308.C20
Gene No.	96448	Strand	+
Start	4728	End	17465
Name	OJ000251_10.0308.C20.o1.gs	Method	GENSCAN
Start	4728	End	17245
GI	none	Score	.77
Exons	4728..4819, 5550..6605, 7700..7755, 8617..8825, 9244..9363, 9467..9595, 9686..9811, 10719..10887, 11691..11900, 12008..12320, 12687..12780, 13904..14051, 14172..14196, 14323..14431, 15014..15202, 15289..15569, 15651..15831, 16011..16181, 16818..16900, 17110..17245		

Seq. No.	45589	Seq. ID	OJ000251_10.0308.C20
Gene No.	96448	Strand	+
Start	4728	End	17465
Name	OJ000251_10.0308.C20.o1.np	Method	AAT/NAP
Start	5776	End	17135
GI	7486214	Score	3323
Exons	5776..6565, 7705..7815, 8617..8825, 9244..9363, 9467..9595, 9686..9808, 10767..10887, 11691..11900, 12008..12320, 12687..12780, 12980..13088, 13542..13813, 13904..14031, 14197..14431, 15014..15202, 15289..15569, 15675..15831, 15939..16181, 17016..17135		

GI Descrip. hypothetical protein F26P21.40 - Arabidopsis thaliana  
gi|3688173|emb|CAA21201.1| (AL031804) putative protein  
[Arabidopsis thaliana] gi|7270239|emb|CAB80009.1| (AL161582)  
putative protein [Arabidopsis thaliana]

Seq. No.	45589	Seq. ID	OJ000251_10.0308.C20
Gene No.	96448	Strand	+
Start	4728	End	17465
Name	OJ000251_10.0308.C20.o1.gp	Method	AAT/GAP
Start	14978	End	15453
GI	uC-osflcyp161e08b1	Score	628
Exons	14978..15202, 15289..15453		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	45589	Seq. ID	OJ000251_10.0308.C20
Gene No.	96448	Strand	+
Start	4728	End	17465
Name	OJ000251_10.0308.C20.o2.gp	Method	AAT/GAP
Start	15615	End	16005
GI	2427656	Score	467
Exons	15615..15831, 15939..16005		
GI Descrip.	3688173/emb CAA21201  2.0e-13 (AL031804) putative protein [Arabidopsis thaliana]		

Seq. No.	45589	Seq. ID	OJ000251_10.0308.C20
Gene No.	96448	Strand	+
Start	4728	End	17465
Name	OJ000251_10.0308.C20.o3.gp	Method	AAT/GAP
Start	16834	End	17465
GI	2798991	Score	876
Exons	16834..16900, 17019..17465		
GI Descrip.	3402815/emb AJ007829 CVE7829 1.0e-20 Cloning Vector pGreen		

Seq. No.	45589	Seq. ID	OJ000251_10.0308.C20
Gene No.	96449	Strand	+
Start	20707	End	21444
Name	OJ000251_10.0308.C20.o4.np	Method	AAT/NAP
Start	20707	End	21444
GI	82638	Score	91
Exons	20707..20938, 21234..21444		
GI Descrip.	hypothetical 16K protein (nad5 intron) - wheat mitochondrion		

Seq. No.	45589	Seq. ID	OJ000251_10.0308.C20
Gene No.	96450	Strand	-
Start	17780	End	20971
Name	OJ000251_10.0308.C20.o2.np	Method	AAT/NAP
Start	17780	End	18657
GI	6691193	Score	655
Exons	17780..18657		
GI Descrip.	(AC007534) F7F22.17 [Arabidopsis thaliana]		

Seq. No.	45589	Seq. ID	OJ000251_10.0308.C20
Gene No.	96450	Strand	-
Start	17780	End	20971
Name	OJ000251_10.0308.C20.o2.gs	Method	GENSCAN
Start	18286	End	20971

GI	none	Score	.55
Exons	18286..18662, 18749..18964, 19186..19593, 20905..20971		
Seq. No.	45589	Seq. ID	OJ000251_10.0308.C20
Gene No.	96451	Strand	-
Start	22272	End	24898
Name	OJ000251_10.0308.C20.o6.tm	Method	TBLASTX:Maize
Start	6642	End	7030
GI	none	Score	77
Exons	6642..6761, 6645..6728, 6650..6760, 6757..6810, 6757..6786, 6844..7020, 6850..6987, 6851..7030, 6863..7000		

Seq. No.	45589	Seq. ID	OJ000251_10.0308.C20
Gene No.	96451	Strand	-
Start	22272	End	24898
Name	OJ000251_10.0308.C20.o5.tm	Method	TBLASTX:Maize
Start	7720	End	9342
GI	none	Score	99
Exons	7720..7752, 7735..7812, 7760..7816, 8615..8668, 8616..8834, 8622..8825, 8732..8833, 9226..9342, 9239..9331, 9241..9339, 9249..9341		

Seq. No.	45589	Seq. ID	OJ000251_10.0308.C20
Gene No.	96451	Strand	-
Start	22272	End	24898
Name	OJ000251_10.0308.C20.o3.tc	Method	TBLASTX:Cress
Start	8604	End	9369
GI	none	Score	195
Exons	8604..8834, 9181..9369, 9249..9365		

Seq. No.	45589	Seq. ID	OJ000251_10.0308.C20
Gene No.	96451	Strand	-
Start	22272	End	24898
Name	OJ000251_10.0308.C20.o4.tm	Method	TBLASTX:Maize
Start	9439	End	10566
GI	none	Score	210
Exons	9439..9597, 9440..9595, 9458..9598, 9669..9818, 9670..9813, 9683..9814, 10399..10461, 10403..10462, 10404..10466, 10404..10463, 10460..10561, 10462..10566, 10468..10488, 10469..10501, 10532..10564		

Seq. No.	45589	Seq. ID	OJ000251_10.0308.C20
Gene No.	96451	Strand	-
Start	22272	End	24898
Name	OJ000251_10.0308.C20.o3.tm	Method	TBLASTX:Maize
Start	12125	End	14052
GI	none	Score	46
Exons	12125..12319, 12135..12182, 12238..12321, 12676..12780, 12687..12782, 12718..12786, 12966..13088, 12979..13089, 12979..13089, 12983..13090, 13539..13814, 13540..13815, 13690..13821, 13703..13822, 13901..14041, 13902..14003, 13903..14052, 13904..14041		

Seq. No.	45589	Seq. ID	OJ000251_10.0308.C20
Gene No.	96451	Strand	-
Start	22272	End	24898
Name	OJ000251_10.0308.C20.o2.tc	Method	TBLASTX:Cress



Start	13595	End	14052
GI	none	Score	60
Exons	13595..13636, 13596..13667, 13597..13815, 13690..13821, 13703..13822, 13901..13993, 13902..14003, 13903..14010, 13904..14011, 14005..14052, 14006..14035		

Seq. No.	45589	Seq. ID	OJ000251_10.0308.C20
Gene No.	96451	Strand	-
Start	22272	End	24898
Name	OJ000251_10.0308.C20.o2.ts	Method	TBLASTX:Soybean
Start	13703	End	14001
GI	none	Score	128
Exons	13703..13822, 13783..13821, 13904..13996, 13909..14001, 13909..13995		

Seq. No.	45589	Seq. ID	OJ000251_10.0308.C20
Gene No.	96451	Strand	-
Start	22272	End	24898
Name	OJ000251_10.0308.C20.o1.ts	Method	TBLASTX:Soybean
Start	14214	End	15507
GI	none	Score	136
Exons	14214..14360, 14215..14301, 14360..14440, 14362..14433, 15011..15202, 15013..15174, 15014..15202, 15274..15507, 15291..15497		

Seq. No.	45589	Seq. ID	OJ000251_10.0308.C20
Gene No.	96451	Strand	-
Start	22272	End	24898
Name	OJ000251_10.0308.C20.o1.tm	Method	TBLASTX:Maize
Start	14270	End	15486
GI	none	Score	113
Exons	14270..14359, 14274..14360, 14279..14371, 14360..14440, 14362..14445, 14362..14433, 15011..15205, 15014..15202, 15285..15485, 15286..15486, 15291..15479		

Seq. No.	45589	Seq. ID	OJ000251_10.0308.C20
Gene No.	96451	Strand	-
Start	22272	End	24898
Name	OJ000251_10.0308.C20.o1.tc	Method	TBLASTX:Cress
Start	15075	End	15510
GI	none	Score	75
Exons	15075..15191, 15077..15217, 15077..15211, 15109..15216, 15307..15510, 15307..15504, 15318..15509		

Seq. No.	45589	Seq. ID	OJ000251_10.0308.C20
Gene No.	96451	Strand	-
Start	22272	End	24898
Name	OJ000251_10.0308.C20.o2.tm	Method	TBLASTX:Maize
Start	15646	End	17236
GI	none	Score	199
Exons	15646..15846, 15655..15831, 15657..15884, 15936..16184, 15938..16183, 16050..16190, 16818..16898, 16820..16897, 16995..17162, 16996..17157, 17000..17170, 17028..17213, 17159..17236, 17194..17229, 17195..17233		

Seq. No.	45589	Seq. ID	OJ000251_10.0308.C20
Gene No.	96451	Strand	-

Start	22272	End	24898
Name	OJ000251_10.0308.C20.o4.ts	Method	TBLASTX:Soybean
Start	15691	End	16016
GI	none	Score	131
Exons	15691..15831, 15691..15831, 15708..15857, 15936..16016, 15938..16015		

Seq. No.	45589	Seq. ID	OJ000251_10.0308.C20
Gene No.	96451	Strand	-
Start	22272	End	24898
Name	OJ000251_10.0308.C20.o3.ts	Method	TBLASTX:Soybean
Start	16043	End	17162
GI	none	Score	184
Exons	16043..16204, 16077..16229, 16080..16205, 16081..16212, 16818..16862, 16853..16885, 16854..16895, 17013..17162, 17017..17157		

Seq. No.	45589	Seq. ID	OJ000251_10.0308.C20
Gene No.	96451	Strand	-
Start	22272	End	24898
Name	OJ000251_10.0308.C20.o1.tw	Method	TBLASTX:Wheat
Start	18035	End	18412
GI	none	Score	122
Exons	18035..18199, 18058..18198, 18220..18327, 18226..18330, 18316..18411, 18317..18412		

Seq. No.	45589	Seq. ID	OJ000251_10.0308.C20
Gene No.	96451	Strand	-
Start	22272	End	24898
Name	OJ000251_10.0308.C20.o2.tw	Method	TBLASTX:Wheat
Start	18499	End	18666
GI	none	Score	82
Exons	18499..18663, 18517..18666		

Seq. No.	45589	Seq. ID	OJ000251_10.0308.C20
Gene No.	96451	Strand	-
Start	22272	End	24898
Name	OJ000251_10.0308.C20.o4.gp	Method	AAT/GAP
Start	21801	End	22078
GI	5851098	Score	479
Exons	21801..22078		

Seq. No.	45589	Seq. ID	OJ000251_10.0308.C20
Gene No.	96451	Strand	-
Start	22272	End	24898
Name	OJ000251_10.0308.C20.o7.tm	Method	TBLASTX:Maize
Start	22108	End	22434
GI	none	Score	45
Exons	22108..22167, 22109..22162, 22274..22432, 22284..22367, 22284..22433, 22285..22434		

Seq. No.	45589	Seq. ID	OJ000251_10.0308.C20
Gene No.	96451	Strand	-
Start	22272	End	24898
Name	OJ000251_10.0308.C20.o3.gs	Method	GENSCAN
Start	22272	End	24898
GI	none	Score	.72

Exons 22272..22841, 22924..23006, 23426..23455, 24385..24499,  
24596..24693, 24889..24898

Seq. No.	45589	Seq. ID	OJ000251_10.0308.C20
Gene No.	96451	Strand	-
Start	22272	End	24898
Name	OJ000251_10.0308.C20.o5.np	Method	AAT/NAP
Start	22275	End	24720
GI	5430774	Score	331
Exons	22275..22841, 24596..24720		
GI Descrip.	(AC007504) Hypothetical Protein [Arabidopsis thaliana]		

Seq. No.	45590	Seq. ID	OJ000251_10.0308.C21
Gene No.	96452	Strand	-
Start	92	End	1386
Name	OJ000251_10.0308.C21.o1.gs	Method	GENSCAN
Start	92	End	1386
GI	none	Score	.91
Exons	92..139, 269..371, 959..1075, 1210..1386		

Seq. No.	45590	Seq. ID	OJ000251_10.0308.C21
Gene No.	96452	Strand	-
Start	92	End	1386
Name	OJ000251_10.0308.C21.o1.tm	Method	TBLASTX:Maize
Start	93	End	1054
GI	none	Score	78
Exons	93..143, 94..144, 252..371, 259..372, 267..371, 950..1039, 950..1054, 951..1043, 958..1053		

Seq. No.	45590	Seq. ID	OJ000251_10.0308.C21
Gene No.	96452	Strand	-
Start	92	End	1386
Name	OJ000251_10.0308.C21.o1.np	Method	AAT/NAP
Start	265	End	1048
GI	5430774	Score	136
Exons	265..371, 959..1048		
GI Descrip.	(AC007504) Hypothetical Protein [Arabidopsis thaliana]		

Seq. No.	45590	Seq. ID	OJ000251_10.0308.C21
Gene No.	96452	Strand	-
Start	92	End	1386
Name	OJ000251_10.0308.C21.o1.gp	Method	AAT/GAP
Start	992	End	1386
GI	700823	Score	400
Exons	992..1075, 1210..1386		

Seq. No.	45591	Seq. ID	OJ000251_10.0308.C22
Gene No.	96453	Strand	+
Start	1487	End	1607
Name	OJ000251_10.0308.C22.o1.gp	Method	AAT/GAP
Start	1487	End	1607
GI	700823	Score	221
Exons	1487..1607		

Seq. No.	45591	Seq. ID	OJ000251_10.0308.C22
Gene No.	96454	Strand	-
Start	495	End	1248

Name	OJ000251_10.0308.C22.o1.gs	Method	GENSCAN
Start	495	End	1248
GI	none	Score	.71
Exons	495..627, 704..840, 955..1248		

Seq. No.	45591	Seq. ID	OJ000251_10.0308.C22
Gene No.	96454	Strand	-
Start	495	End	1248
Name	OJ000251_10.0308.C22.o1.np	Method	AAT/NAP
Start	534	End	1219
GI	7469146	Score	119
Exons	534..627, 707..826, 959..1219		
GI Descrip.	conserved hypothetical protein - Rhodobacter capsulatus gi 3128304 gb AAC16156.1  (AF010496) hypothetical protein [Rhodobacter capsulatus]		

Seq. No.	45592	Seq. ID	OJ000251_10.0308.C23
Gene No.	96455	Strand	+
Start	2190	End	8274
Name	OJ000251_10.0308.C23.o1.gs	Method	GENSCAN
Start	2190	End	7624
GI	none	Score	.61
Exons	2190..2395, 2633..2845, 3105..3269, 3444..3678, 3903..4089, 4961..5058, 5354..5412, 5771..6556, 6786..7302, 7335..7624		

Seq. No.	45592	Seq. ID	OJ000251_10.0308.C23
Gene No.	96455	Strand	+
Start	2190	End	8274
Name	OJ000251_10.0308.C23.o1.np	Method	AAT/NAP
Start	2302	End	2826
GI	7523502	Score	206
Exons	2302..2395, 2697..2826		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	45592	Seq. ID	OJ000251_10.0308.C23
Gene No.	96455	Strand	+
Start	2190	End	8274
Name	OJ000251_10.0308.C23.o1.gp	Method	AAT/GAP
Start	4543	End	5048
GI	43649_2.R1084	Score	767
Exons	4543..4681, 4785..5048		
GI Descrip.	'3688173/emb CAA21201  2.0e-13 (AL031804) putative protein [Arabidopsis thaliana]'		

Seq. No.	45592	Seq. ID	OJ000251_10.0308.C23
Gene No.	96455	Strand	+
Start	2190	End	8274
Name	OJ000251_10.0308.C23.o2.np	Method	AAT/NAP
Start	4914	End	8274
GI	4220455	Score	583
Exons	4914..5111, 5819..6569, 6796..7227, 7300..7595, 8237..8274		
GI Descrip.	(AC006216) Identical to gene gb D88746 AR791 from Arabidopsis thaliana. [Arabidopsis thaliana]		

Seq. No.	45592	Seq. ID	OJ000251_10.0308.C23
Gene No.	96455	Strand	+
Start	2190	End	8274

Name	OJ000251_10.0308.C23.o1.tc	Method	TBLASTX:Cress
Start	5879	End	7043
GI	none	Score	48
Exons	5879..5920, 5963..6373, 6432..6512, 6798..7043, 6875..7036		

Seq. No.	45592	Seq. ID	OJ000251_10.0308.C23
Gene No.	96455	Strand	+
Start	2190	End	8274
Name	OJ000251_10.0308.C23.o2.tm	Method	TBLASTX:Maize
Start	6011	End	6276
GI	none	Score	332
Exons	6011..6265, 6024..6275, 6025..6276		

Seq. No.	45592	Seq. ID	OJ000251_10.0308.C23
Gene No.	96455	Strand	+
Start	2190	End	8274
Name	OJ000251_10.0308.C23.o1.tw	Method	TBLASTX:Wheat
Start	6063	End	6523
GI	none	Score	205
Exons	6063..6374, 6064..6375, 6065..6376, 6369..6521, 6443..6520, 6460..6522, 6464..6523		

Seq. No.	45592	Seq. ID	OJ000251_10.0308.C23
Gene No.	96455	Strand	+
Start	2190	End	8274
Name	OJ000251_10.0308.C23.o2.gp	Method	AAT/GAP
Start	6315	End	6926
GI	LIB3477-010-P1-K1-F8	Score	678
Exons	6315..6556, 6786..6926		
GI Descrip.	'1669599/dbj BAA13687  2.0e-13 (D88746) AR791 [Arabidopsis thaliana]'		

Seq. No.	45592	Seq. ID	OJ000251_10.0308.C23
Gene No.	96455	Strand	+
Start	2190	End	8274
Name	OJ000251_10.0308.C23.o1.tm	Method	TBLASTX:Maize
Start	6384	End	7810
GI	none	Score	190
Exons	6384..6560, 6443..6559, 6780..7112, 6783..7100, 6869..7183, 7091..7219, 7095..7154, 7145..7390, 7180..7338, 7387..7491, 7392..7532, 7543..7611, 7553..7615, 7657..7689, 7668..7709, 7715..7738, 7790..7810		

Seq. No.	45592	Seq. ID	OJ000251_10.0308.C23
Gene No.	96455	Strand	+
Start	2190	End	8274
Name	OJ000251_10.0308.C23.o1.ts	Method	TBLASTX:Soybean
Start	6774	End	7043
GI	none	Score	258
Exons	6774..7043, 6869..7036		

Seq. No.	45592	Seq. ID	OJ000251_10.0308.C23
Gene No.	96455	Strand	+
Start	2190	End	8274
Name	OJ000251_10.0308.C23.o3.gp	Method	AAT/GAP
Start	7495	End	7900
GI	none	Score	792

Exons 7495..7900

Seq. No.	45593	Seq. ID	OJ000251_10.0308.C24
Gene No.	96456	Strand	+
Start	1	End	1647
Name	OJ000251_10.0308.C24.o1.np	Method	AAT/NAP
Start	1	End	1647
GI	4493973	Score	196
Exons	1..68, 1430..1647		
GI Descrip.	(AL034559) predicted using hexExon; MAL3P7.14 (PFC0925w), Hypothetical protein, len: 489 aa [Plasmodium falciparum]		

Seq. No.	45593	Seq. ID	OJ000251_10.0308.C24
Gene No.	96457	Strand	+
Start	2269	End	2498
Name	OJ000251_10.0308.C24.o1.gp	Method	AAT/GAP
Start	2269	End	2498
GI	LIB3431-009-P1-N1-D10	Score	445
Exons	2269..2498		
GI Descrip.	'310316/gb L19598 RICRTUB1X 7.0e-11 Rice beta-tubulin (RTUB-1) mRNA, complete cds'		

Seq. No.	45593	Seq. ID	OJ000251_10.0308.C24
Gene No.	96458	Strand	-
Start	2485	End	3170
Name	OJ000251_10.0308.C24.o1.gs	Method	GENSCAN
Start	2485	End	3170
GI	none	Score	.63
Exons	2485..2606, 3119..3170		

Seq. No.	45593	Seq. ID	OJ000251_10.0308.C24
Gene No.	96459	Strand	-
Start	5122	End	5443
Name	OJ000251_10.0308.C24.o2.gp	Method	AAT/GAP
Start	4877	End	5443
GI	5421_1.R1084	Score	772
Exons	4877..5240, 5361..5443		
GI Descrip.	'3688173/emb CAA21201  2.0e-13 (AL031804) putative protein [Arabidopsis thaliana]'		

Seq. No.	45593	Seq. ID	OJ000251_10.0308.C24
Gene No.	96459	Strand	-
Start	5122	End	5443
Name	OJ000251_10.0308.C24.o1.tm	Method	TBLASTX:Maize
Start	5037	End	5426
GI	none	Score	195
Exons	5037..5240, 5089..5241, 5334..5426, 5341..5424		

Seq. No.	45593	Seq. ID	OJ000251_10.0308.C24
Gene No.	96459	Strand	-
Start	5122	End	5443
Name	OJ000251_10.0308.C24.o2.gs	Method	GENSCAN
Start	5122	End	5425
GI	none	Score	.67
Exons	5122..5240, 5361..5425		

Seq. No.	45594	Seq. ID	OJ000251_10.0308.C25
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Gene No.	96461	Strand	-
Start	1040	End	5031
Name	OJ000251_10.0308.C25.o1.gs	Method	GENSCAN
Start	1040	End	5031
GI	none	Score	.7
Exons	1040..1144, 1198..1270, 1369..1440, 1867..1997, 4946..5031		

Seq. No.	45594	Seq. ID	OJ000251_10.0308.C25
Gene No.	96461	Strand	-
Start	1040	End	5031
Name	OJ000251_10.0308.C25.o1.np	Method	AAT/NAP
Start	1189	End	2024
GI	2062168	Score	277
Exons	1189..1270, 1369..1440, 1684..1752, 1867..2024		
GI Descrip.	(AC001645) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45595	Seq. ID	OJ000251_10.0308.C31
Gene No.	96462	Strand	+
Start	1	End	737
Name	OJ000251_10.0308.C31.o1.np	Method	AAT/NAP
Start	1	End	737
GI	7486214	Score	222
Exons	1..183, 274..396, 699..737		
GI Descrip.	hypothetical protein F26P21.40 - Arabidopsis thaliana gi 3688173 emb CAA21201.1  (AL031804) putative protein [Arabidopsis thaliana] gi 7270239 emb CAB80009.1  (AL161582) putative protein [Arabidopsis thaliana]		

Seq. No.	45595	Seq. ID	OJ000251_10.0308.C31
Gene No.	96462	Strand	+
Start	1	End	737
Name	OJ000251_10.0308.C31.o1.tm	Method	TBLASTX:Maize
Start	27	End	406
GI	none	Score	210
Exons	27..185, 28..183, 46..186, 257..406, 258..401, 271..402		

Seq. No.	45595	Seq. ID	OJ000251_10.0308.C31
Gene No.	96462	Strand	+
Start	1	End	737
Name	OJ000251_10.0308.C31.o1.gs	Method	GENSCAN
Start	55	End	585
GI	none	Score	.87
Exons	55..183, 274..399, 520..585		

Seq. No.	45596	Seq. ID	OJ000251_10.0308.C40
Gene No.	96463	Strand	-
Start	198	End	698
Name	OJ000251_10.0308.C40.o1.gs	Method	GENSCAN
Start	198	End	698
GI	none	Score	.74
Exons	198..366, 399..698		

Seq. No.	45597	Seq. ID	OJ000251_10.0308.C41
Gene No.	96464	Strand	-
Start	56	End	1426
Name	OJ000251_10.0308.C41.o1.gs	Method	GENSCAN
Start	56	End	1426

GI	none	Score	.54
Exons	56..230, 1371..1426		
Seq. No.	45598	Seq. ID	OJ000211_11.0309.C12
Gene No.	96465	Strand	
Start	157	End	675
Name	OJ000211_11.0309.C12.o1.tw	Method	TBLASTX:Wheat
Start	157	End	538
GI	none	Score	192
Exons	157..537, 170..436, 482..538		

Seq. No.	45598	Seq. ID	OJ000211_11.0309.C12
Gene No.	96465	Strand	
Start	157	End	675
Name	OJ000211_11.0309.C12.o1.tm	Method	TBLASTX:Maize
Start	341	End	675
GI	none	Score	168
Exons	341..481, 342..533, 352..675, 365..556		

Seq. No.	45599	Seq. ID	OJ000211_11.0309.C14
Gene No.	96466	Strand	+
Start	887	End	1137
Name	OJ000211_11.0309.C14.o2.gp	Method	AAT/GAP
Start	887	End	1137
GI	8163_1.R1084	Score	374
Exons	887..1137		
GI Descrip.	'5733872/gb AAD49760.1 AC007932_8 8.0e-27 (AC007932) Similar to gi_4982048 ribosomal protein L18 from Thermotoga maritima genome gb_AE001798. ESTs gb_Z35613, gb_T75951, gb_T22182, gb_T45962, gb_H76281 and gb_AI100025 come from this gene. [Arabidopsis thaliana]'		

Seq. No.	45599	Seq. ID	OJ000211_11.0309.C14
Gene No.	96467	Strand	-
Start	124	End	1143
Name	OJ000211_11.0309.C14.o1.tc	Method	TBLASTX:Cress
Start	114	End	1100
GI	none	Score	197
Exons	114..236, 125..289, 127..285, 886..990, 887..994, 898..1008, 1017..1100		

Seq. No.	45599	Seq. ID	OJ000211_11.0309.C14
Gene No.	96467	Strand	-
Start	124	End	1143
Name	OJ000211_11.0309.C14.o1.gp	Method	AAT/GAP
Start	124	End	554
GI	LIB3432-034-P2-K1-F3	Score	274
Exons	124..304, 521..554		
GI Descrip.	'5733872/gb AAD49760.1 AC007932_8 2.0e-12 (AC007932) Similar to gi_4982048 ribosomal protein L18 from Thermotoga maritima genome gb_AE001798. ESTs gb_Z35613, gb_T75951, gb_T22182, gb_T45962, gb_H76281 and gb_AI100025 come from this gene. [Arabidopsis thaliana]'		

Seq. No.	45599	Seq. ID	OJ000211_11.0309.C14
Gene No.	96467	Strand	-
Start	124	End	1143



Name	OJ000211_11.0309.C14.o1.tm	Method	TBLASTX:Maize
Start	125	End	1143
GI	none	Score	256
Exons	125..289, 126..284, 127..294, 886..990, 887..994, 889..1020, 894..1031, 1017..1085, 1017..1085, 1049..1090, 1078..1143		

Seq. No.	45599	Seq. ID	OJ000211_11.0309.C14
Gene No.	96467	Strand	-
Start	124	End	1143
Name	OJ000211_11.0309.C14.o1.ts	Method	TBLASTX:Soybean
Start	125	End	994
GI	none	Score	180
Exons	125..289, 127..291, 886..984, 887..994		

Seq. No.	45600	Seq. ID	OJ000301_15.0330.C4
Gene No.	96468	Strand	-
Start	1	End	848
Name	OJ000301_15.0330.C4.o1.gp	Method	AAT/GAP
Start	1	End	848
GI	30_1.R1084	Score	1261
Exons	1..108, 204..428, 525..848		
GI Descrip.	'3913641/sp O64422 F16P_ORYSA 0.0e+00 FRUCTOSE-1,6-BISPHOSPHATASE, CHLOROPLAST PRECURSOR (D-FRUCTOSE-1,6-BISPHOSPHATE 1-PHOSPHOHYDROLASE) (FBPASE) >gi_3041777_dbj_BAA25423_ (AB007194) fructose-1,6-bisphosphatase [Oryza sativa]'		

Seq. No.	45600	Seq. ID	OJ000301_15.0330.C4
Gene No.	96468	Strand	-
Start	1	End	848
Name	OJ000301_15.0330.C4.o1.np	Method	AAT/NAP
Start	1	End	848
GI	3913641	Score	1012
Exons	1..108, 204..428, 525..848		
GI Descrip.	FRUCTOSE-1,6-BISPHOSPHATASE, CHLOROPLAST PRECURSOR (D-FRUCTOSE-1,6-BISPHOSPHATE 1-PHOSPHOHYDROLASE) (FBPASE) gi 3041777 dbj BAA25423  (AB007194) fructose-1,6-bisphosphatase [Oryza sativa]		

Seq. No.	45600	Seq. ID	OJ000301_15.0330.C4
Gene No.	96468	Strand	-
Start	1	End	848
Name	OJ000301_15.0330.C4.o1.tc	Method	TBLASTX:Cress
Start	1	End	752
GI	none	Score	142
Exons	1..108, 2..100, 210..431, 211..429, 498..752, 522..683, 562..693		

Seq. No.	45600	Seq. ID	OJ000301_15.0330.C4
Gene No.	96468	Strand	-
Start	1	End	848
Name	OJ000301_15.0330.C4.o1.ts	Method	TBLASTX:Soybean
Start	1	End	827
GI	none	Score	141
Exons	1..108, 2..106, 210..431, 211..429, 498..827, 525..683, 562..693		

Seq. No.	45600	Seq. ID	OJ000301_15.0330.C4
Gene No.	96468	Strand	-

Start	1	End	848
Name	OJ000301_15.0330.C4.o1.gs	Method	GENSCAN
Start	19	End	759
GI	none	Score	.77
Exons	19..108, 204..428, 525..759		

Seq. No.	45600	Seq. ID	OJ000301_15.0330.C4
Gene No.	96468	Strand	-
Start	1	End	848
Name	OJ000301_15.0330.C4.o1.tm	Method	TBLASTX:Maize
Start	43	End	811
GI	none	Score	103
Exons	43..108, 44..106, 51..143, 201..431, 214..429, 393..431, 410..439, 498..809, 522..683, 562..693, 767..811		

Seq. No.	45601	Seq. ID	OJ000301_15.0330.C5
Gene No.	96469	Strand	+
Start	1	End	936
Name	OJ000301_15.0330.C5.o1.np	Method	AAT/NAP
Start	1	End	936
GI	4309759	Score	278
Exons	1..108, 220..389, 716..775, 865..936		
GI Descrip.	(AC006217) unknown protein [Arabidopsis thaliana]		

Seq. No.	45601	Seq. ID	OJ000301_15.0330.C5
Gene No.	96469	Strand	+
Start	1	End	936
Name	OJ000301_15.0330.C5.o1.gp	Method	AAT/GAP
Start	210	End	783
GI	29605_1.R1084	Score	430
Exons	210..389, 716..783		
GI Descrip.	'4309759/gb AAD15528  3.0e-50 (AC006217) unknown protein with Src homology 3 (SH3) domain profile (PDOC50002) [Arabidopsis thaliana]'		

Seq. No.	45601	Seq. ID	OJ000301_15.0330.C5
Gene No.	96469	Strand	+
Start	1	End	936
Name	OJ000301_15.0330.C5.o1.gs	Method	GENSCAN
Start	210	End	775
GI	none	Score	.96
Exons	210..389, 716..775		

Seq. No.	45601	Seq. ID	OJ000301_15.0330.C5
Gene No.	96470	Strand	+
Start	893	End	1071
Name	OJ000301_15.0330.C5.o1.ts	Method	TBLASTX:Soybean
Start	206	End	778
GI	none	Score	72
Exons	206..307, 209..388, 210..392, 713..778		

Seq. No.	45601	Seq. ID	OJ000301_15.0330.C5
Gene No.	96470	Strand	+
Start	893	End	1071
Name	OJ000301_15.0330.C5.o1.tc	Method	TBLASTX:Cress
Start	209	End	392
GI	none	Score	181

Exons 209..391, 216..392

Seq. No.	45601	Seq. ID	OJ000301_15.0330.C5
Gene No.	96470	Strand	+
Start	893	End	1071
Name	OJ000301_15.0330.C5.o2.gp	Method	AAT/GAP
Start	893	End	1071
GI	34852_1.R1084	Score	342
Exons	893..1071		
GI Descrip.	'1781299/emb CAA70700  5.0e-15 (Y09506) transformer-SR ribonucleoprotein [Nicotiana tabacum]'		

Seq. No.	45602	Seq. ID	OJ000301_15.0330.C6
Gene No.	96471	Strand	+
Start	2867	End	3719
Name	OJ000301_15.0330.C6.o1.gp	Method	AAT/GAP
Start	2867	End	3719
GI	none	Score	1662
Exons	2867..3719		

Seq. No.	45602	Seq. ID	OJ000301_15.0330.C6
Gene No.	96472	Strand	-
Start	3398	End	4257
Name	OJ000301_15.0330.C6.o1.np	Method	AAT/NAP
Start	3398	End	4225
GI	2464852	Score	172
Exons	3398..3439, 3560..3706, 3814..3909, 4007..4225		
GI Descrip.	(Z99707) putative protein [Arabidopsis thaliana]		

Seq. No.	45602	Seq. ID	OJ000301_15.0330.C6
Gene No.	96472	Strand	-
Start	3398	End	4257
Name	OJ000301_15.0330.C6.o2.gp	Method	AAT/GAP
Start	3942	End	4257
GI	LIB3434-026-P1-K1-C8	Score	551
Exons	3942..4257		
GI Descrip.	'1781299/emb CAA70700  5.0e-15 (Y09506) transformer-SR ribonucleoprotein [Nicotiana tabacum]'		

Seq. No.	45602	Seq. ID	OJ000301_15.0330.C6
Gene No.	96473	Strand	-
Start	10217	End	11070
Name	OJ000301_15.0330.C6.o1.ts	Method	TBLASTX:Soybean
Start	2594	End	2911
GI	none	Score	117
Exons	2594..2677, 2599..2676, 2735..2911, 2743..2853		

Seq. No.	45602	Seq. ID	OJ000301_15.0330.C6
Gene No.	96473	Strand	-
Start	10217	End	11070
Name	OJ000301_15.0330.C6.o2.tm	Method	TBLASTX:Maize
Start	2596	End	2911
GI	none	Score	127
Exons	2596..2754, 2597..2755, 2740..2853, 2741..2911		

Seq. No.	45602	Seq. ID	OJ000301_15.0330.C6
Gene No.	96473	Strand	-

Start	10217	End	11070
Name	OJ000301_15.0330.C6.o1.tm	Method	TBLASTX:Maize
Start	3261	End	4211
GI	none	Score	46
Exons	3261..3299, 3272..3301, 3312..3374, 3324..3362, 3384..3440, 3392..3439, 3397..3441, 3397..3441, 3565..3651, 3569..3664, 3573..3650, 3677..3706, 3678..3707, 3814..3909, 3815..3904, 4007..4066, 4058..4198, 4083..4211		

Seq. No.	45602	Seq. ID	OJ000301_15.0330.C6
Gene No.	96473	Strand	-
Start	10217	End	11070
Name	OJ000301_15.0330.C6.o4.tm	Method	TBLASTX:Maize
Start	4732	End	5320
GI	none	Score	41
Exons	4732..4779, 4855..4911, 4954..4995, 4954..5004, 5055..5177, 5081..5170, 5243..5317, 5248..5316, 5252..5320		

Seq. No.	45602	Seq. ID	OJ000301_15.0330.C6
Gene No.	96473	Strand	-
Start	10217	End	11070
Name	OJ000301_15.0330.C6.o3.tm	Method	TBLASTX:Maize
Start	8187	End	9207
GI	none	Score	86
Exons	8187..8240, 8190..8240, 9030..9074, 9030..9179, 9030..9191, 9031..9207, 9031..9180, 9032..9184, 9032..9103		

Seq. No.	45602	Seq. ID	OJ000301_15.0330.C6
Gene No.	96473	Strand	-
Start	10217	End	11070
Name	OJ000301_15.0330.C6.o1.tw	Method	TBLASTX:Wheat
Start	9048	End	9189
GI	none	Score	196
Exons	9048..9176, 9050..9175, 9070..9189, 9080..9181		

Seq. No.	45602	Seq. ID	OJ000301_15.0330.C6
Gene No.	96473	Strand	-
Start	10217	End	11070
Name	OJ000301_15.0330.C6.o2.gs	Method	GENSCAN
Start	10217	End	11070
GI	none	Score	.88
Exons	10217..10476, 10960..11070		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96474	Strand	+
Start	531	End	2295
Name	OJ000301_15.0330.C7.o1.np	Method	AAT/NAP
Start	531	End	2051
GI	7263565	Score	656
Exons	531..665, 1086..1185, 1304..1338, 1454..1543, 1817..2051		
GI Descrip.	(AL161667) transcription factor L2 [Arabidopsis thaliana]		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96474	Strand	+
Start	531	End	2295
Name	OJ000301_15.0330.C7.o1.gs	Method	GENSCAN
Start	534	End	2047

GI	none	Score	.76
Exons	534..665, 1086..1185, 1301..1338, 1454..1543, 1817..2047		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96474	Strand	+
Start	531	End	2295
Name	OJ000301_15.0330.C7.o1.gp	Method	AAT/GAP
Start	1283	End	2295
GI	36105_1.R1084	Score	1111
Exons	1283..1338, 1454..1543, 1817..2295		
GI Descrip.	'3980380 3.0e-19 (AC004561) putative enolase [Arabidopsis thaliana]'		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96475	Strand	+
Start	7859	End	8981
Name	OJ000301_15.0330.C7.o3.gs	Method	GENSCAN
Start	7859	End	8722
GI	none	Score	.87
Exons	7859..8722		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96475	Strand	+
Start	7859	End	8981
Name	OJ000301_15.0330.C7.o4.gp	Method	AAT/GAP
Start	8122	End	8981
GI	208_3.R1084	Score	1620
Exons	8122..8981		
GI Descrip.	'2119194/ pir  JC4377 2.0e-68 low-molecular-weight heat-shock protein - rice >gi_1815662 (U83670) low molecular mass heat shock protein Oshsp18.0 [Oryza sativa]'		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96475	Strand	+
Start	7859	End	8981
Name	OJ000301_15.0330.C7.o3.np	Method	AAT/NAP
Start	8237	End	8719
GI	2119194	Score	766
Exons	8237..8719		
GI Descrip.	low-molecular-weight heat-shock protein - rice gi 1815662 (U83670) low molecular mass heat shock protein Oshsp18.0 [Oryza sativa]		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96476	Strand	+
Start	9781	End	11665
Name	OJ000301_15.0330.C7.o4.gs	Method	GENSCAN
Start	9781	End	11665
GI	none	Score	.81
Exons	9781..9892, 9975..10133, 10299..11036, 11115..11665		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96476	Strand	+
Start	9781	End	11665
Name	OJ000301_15.0330.C7.o5.np	Method	AAT/NAP
Start	10304	End	11665
GI	7488706	Score	978

Exons 10304..11036, 11115..11665  
 GI Descrip. probable transposase - soybean transposon mariner element  
 Soymar1 gi|3386534|gb|AAC28384.1| (AF078934) mariner transposase  
 [Glycine max]

Seq. No. 45603 Seq. ID OJ000301\_15.0330.C7  
 Gene No. 96477 Strand +  
 Start 14659 End 28216  
 Name OJ000301\_15.0330.C7.o6.gs Method GENSCAN  
 Start 14659 End 28216  
 GI none Score .6  
 Exons 14659..14721, 16429..16586, 17084..17231, 17817..17863,  
 18760..18853, 19333..19604, 21372..21527, 21619..21901,  
 22141..22294, 22451..22482, 22670..22786, 22877..22946,  
 23033..23181, 23865..23966, 24037..24237, 24877..24996,  
 25136..25354, 26026..26100, 26348..26446, 27352..27537,  
 28040..28216

Seq. No. 45603 Seq. ID OJ000301\_15.0330.C7  
 Gene No. 96477 Strand +  
 Start 14659 End 28216  
 Name OJ000301\_15.0330.C7.o5.gp Method AAT/GAP  
 Start 25188 End 26534  
 GI LIB3432-014-P1-K1-G11 Score 787  
 Exons 25188..25354, 26026..26100, 26348..26534  
 GI Descrip. '5816992/emb|CAB53647.1| 6.0e-18 (AL110123) putative protein  
 [Arabidopsis thaliana]'

Seq. No. 45603 Seq. ID OJ000301\_15.0330.C7  
 Gene No. 96478 Strand +  
 Start 28693 End 35998  
 Name OJ000301\_15.0330.C7.o7.gs Method GENSCAN  
 Start 28693 End 35692  
 GI none Score .62  
 Exons 28693..28948, 29963..30091, 30249..30444, 31137..31210,  
 31466..31601, 31783..31854, 32481..32552, 32878..32975,  
 33489..33674, 33795..33821, 34842..35087, 35232..35365,  
 35480..35692

Seq. No. 45603 Seq. ID OJ000301\_15.0330.C7  
 Gene No. 96478 Strand +  
 Start 28693 End 35998  
 Name OJ000301\_15.0330.C7.o6.gp Method AAT/GAP  
 Start 30220 End 31545  
 GI none Score 1013  
 Exons 30220..30444, 31137..31372, 31466..31545

Seq. No. 45603 Seq. ID OJ000301\_15.0330.C7  
 Gene No. 96478 Strand +  
 Start 28693 End 35998  
 Name OJ000301\_15.0330.C7.o6.np Method AAT/NAP  
 Start 31399 End 35695  
 GI 4263791 Score 1725  
 Exons 31399..31601, 31783..31854, 31931..32002, 32146..32217,  
 32481..32552, 32638..32709, 32878..32967, 33256..33383,  
 33489..33821, 34842..35087, 35232..35365, 35480..35695  
 GI Descrip. (AC006068) putative receptor-like protein kinase [Arabidopsis

thaliana]

Seq. No. 45603 Seq. ID OJ000301\_15.0330.C7  
Gene No. 96478 Strand +  
Start 28693 End 35998  
Name OJ000301\_15.0330.C7.o7.gp Method AAT/GAP  
Start 31965 End 33333  
GI LIB3434-023-P1-K1-C1 Score 748  
Exons 31965..32002, 32146..32217, 32481..32552, 32638..32709,  
32878..32975, 33240..33333  
GI Descrip. '4263791/gb|AAD15451| 6.0e-29 (AC006068) putative receptor  
protein kinase [Arabidopsis thaliana]'

Seq. No. 45603 Seq. ID OJ000301\_15.0330.C7  
Gene No. 96478 Strand +  
Start 28693 End 35998  
Name OJ000301\_15.0330.C7.o8.gp Method AAT/GAP  
Start 34903 End 35610  
GI LIB3433-031-P1-K1-B10 Score 809  
Exons 34903..35087, 35232..35365, 35480..35610  
GI Descrip. '4263791/gb|AAD15451| 8.0e-65 (AC006068) putative receptor  
protein kinase [Arabidopsis thaliana]'

Seq. No. 45603 Seq. ID OJ000301\_15.0330.C7  
Gene No. 96478 Strand +  
Start 28693 End 35998  
Name OJ000301\_15.0330.C7.o9.gp Method AAT/GAP  
Start 35584 End 35998  
GI 5002802 Score 647  
Exons 35584..35998

Seq. No. 45603 Seq. ID OJ000301\_15.0330.C7  
Gene No. 96479 Strand +  
Start 36168 End 36916  
Name OJ000301\_15.0330.C7.o10.gp Method AAT/GAP  
Start 36168 End 36916  
GI 208\_1.R1084 Score 1448  
Exons 36168..36916  
GI Descrip. '1815660 2.0e-50 (U83669) low molecular mass heat shock protein  
Oshsp17.3 [Oryza sativa]'

Seq. No. 45603 Seq. ID OJ000301\_15.0330.C7  
Gene No. 96480 Strand +  
Start 37319 End 38074  
Name OJ000301\_15.0330.C7.o11.gp Method AAT/GAP  
Start 37319 End 38074  
GI 208\_2.R1084 Score 1387  
Exons 37319..38074  
GI Descrip. '2119194/pir||JC4377 8.0e-47 low-molecular-weight heat-shock  
protein - rice >gi\_1815662 (U83670) low molecular mass heat  
shock protein Oshsp18.0 [Oryza sativa]'

Seq. No. 45603 Seq. ID OJ000301\_15.0330.C7  
Gene No. 96480 Strand +  
Start 37319 End 38074  
Name OJ000301\_15.0330.C7.o8.np Method AAT/NAP  
Start 37401 End 37883

GI	2119194	Score	813
Exons	37401..37883		
GI Descrip.	low-molecular-weight heat-shock protein - rice gi 1815662 (U83670) low molecular mass heat shock protein Oshsp18.0 [Oryza sativa]		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96480	Strand	+
Start	37319	End	38074
Name	OJ000301_15.0330.C7.o9.gs	Method	GENSCAN
Start	37401	End	37886
GI	none	Score	.96
Exons	37401..37886		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96481	Strand	+
Start	38590	End	39636
Name	OJ000301_15.0330.C7.o10.gs	Method	GENSCAN
Start	38590	End	39636
GI	none	Score	.64
Exons	38590..38686, 39536..39636		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96482	Strand	+
Start	40219	End	41078
Name	OJ000301_15.0330.C7.o12.gp	Method	AAT/GAP
Start	40219	End	41078
GI	208_4.R1084	Score	1248
Exons	40219..40892, 40932..41002, 41056..41078		
GI Descrip.	'2119194/pir JC4377 1.0e-51 low-molecular-weight heat-shock protein - rice >gi_1815662 (U83670) low molecular mass heat shock protein Oshsp18.0 [Oryza sativa]'		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96483	Strand	+
Start	53921	End	56613
Name	OJ000301_15.0330.C7.o14.gp	Method	AAT/GAP
Start	53840	End	54444
GI	none	Score	954
Exons	53840..54244, 54336..54444		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96483	Strand	+
Start	53921	End	56613
Name	OJ000301_15.0330.C7.o11.np	Method	AAT/NAP
Start	53921	End	56594
GI	7263560	Score	874
Exons	53921..54244, 54336..54713, 55990..56594		
GI Descrip.	(AL161667) putative protein [Arabidopsis thaliana]		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96483	Strand	+
Start	53921	End	56613
Name	OJ000301_15.0330.C7.o16.gs	Method	GENSCAN
Start	53921	End	56613
GI	none	Score	.92
Exons	53921..54244, 54336..54713, 55305..55397, 55990..56613		



Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96484	Strand	+
Start	57112	End	57274
Name	OJ000301_15.0330.C7.o15.gp	Method	AAT/GAP
Start	57112	End	57274
GI	uC-osflcyp032f03b1	Score	283
Exons	57112..57274		
GI Descrip.	'3980384 8.0e-10 (AC004561) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96485	Strand	-
Start	3257	End	7400
Name	OJ000301_15.0330.C7.o2.gs	Method	GENSCAN
Start	3257	End	7400
GI	none	Score	.91
Exons	3257..3337, 3516..3713, 4443..4528, 5394..5497, 5637..5734, 5991..6071, 6320..6436, 6533..6604, 6966..7400		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96485	Strand	-
Start	3257	End	7400
Name	OJ000301_15.0330.C7.o2.np	Method	AAT/NAP
Start	3269	End	7400
GI	3980380	Score	1307
Exons	3269..3337, 3516..3713, 4291..4376, 4443..4528, 4619..4716, 5394..5497, 5603..5679, 5991..6071, 6320..6436, 6533..6604, 6966..7400		
GI Descrip.	(AC004561) putative enolase (2-phospho-D-glycerate hydroylase) [Arabidopsis thaliana]		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96485	Strand	-
Start	3257	End	7400
Name	OJ000301_15.0330.C7.o2.gp	Method	AAT/GAP
Start	3597	End	4483
GI	2796662	Score	391
Exons	3597..3713, 4291..4376, 4443..4483		
GI Descrip.	3980380 3.0e-19 (AC004561) putative enolase [Arabidopsis thaliana]		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96485	Strand	-
Start	3257	End	7400
Name	OJ000301_15.0330.C7.o3.gp	Method	AAT/GAP
Start	4669	End	6073
GI	5004179	Score	541
Exons	4669..4716, 5394..5497, 5603..5679, 5991..6073		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96486	Strand	-
Start	7440	End	11175
Name	OJ000301_15.0330.C7.o4.np	Method	AAT/NAP
Start	7440	End	11175
GI	5734709	Score	93
Exons	7440..7571, 8390..8526, 9973..10174, 10360..10490, 11091..11175		

GI Descrip. (AC008075) Contains PF|00069 Eukaryotic protein kinase domain.  
[Arabidopsis thaliana]

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96487	Strand	-
Start	11865	End	12332
Name	OJ000301_15.0330.C7.o5.gs	Method	GENSCAN
Start	11865	End	12332
GI	none	Score	.97
Exons	11865..12332		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96488	Strand	-
Start	36369	End	37099
Name	OJ000301_15.0330.C7.o8.gs	Method	GENSCAN
Start	36369	End	37099
GI	none	Score	.73
Exons	36369..36930, 37044..37099		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96488	Strand	-
Start	36369	End	37099
Name	OJ000301_15.0330.C7.o7.np	Method	AAT/NAP
Start	36372	End	36833
GI	1815660	Score	804
Exons	36372..36833		

GI Descrip. (U83669) low molecular mass heat shock protein Oshsp17.3 [Oryza sativa]

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96489	Strand	-
Start	40487	End	40966
Name	OJ000301_15.0330.C7.o11.gs	Method	GENSCAN
Start	40487	End	40966
GI	none	Score	.87
Exons	40487..40966		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96489	Strand	-
Start	40487	End	40966
Name	OJ000301_15.0330.C7.o9.np	Method	AAT/NAP
Start	40490	End	40966
GI	7441302	Score	824
Exons	40490..40966		

GI Descrip. heat shock protein, low molecular weight - rice  
gi|1815664|gb|AAC78394.1| (U83671) low molecular mass heat shock  
protein Oshsp17.7 [Oryza sativa]

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96490	Strand	-
Start	42072	End	42550
Name	OJ000301_15.0330.C7.o12.gs	Method	GENSCAN
Start	42072	End	42550
GI	none	Score	.97
Exons	42072..42277, 42379..42550		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
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Gene No. 96491 Strand -  
 Start 43887 End 45517  
 Name OJ000301\_15.0330.C7.o13.gp Method AAT/GAP  
 Start 43724 End 45517  
 GI 30\_1.R1084 Score 2783  
 Exons 43724..43958, 44073..44579, 44675..44899, 44996..45042,  
 45075..45517  
 GI Descrip. '3913641/sp|O64422|F16P\_ORYSA 0.0e+00  
 FRUCTOSE-1,6-BISPHOSPHATASE, CHLOROPLAST PRECURSOR  
 (D-FRUCTOSE-1,6-BISPHOSPHATE 1-PHOSPHOHYDROLASE) (FBPASE)  
 >gi\_3041777\_dbj\_BAA25423\_ (AB007194) fructose-1,6-bisphosphatase  
 [Oryza sativa]'

Seq. No. 45603 Seq. ID OJ000301\_15.0330.C7  
 Gene No. 96491 Strand -  
 Start 43887 End 45517  
 Name OJ000301\_15.0330.C7.o13.gs Method GENSCAN  
 Start 43887 End 45443  
 GI none Score .89  
 Exons 43887..43958, 44073..44579, 44675..44899, 45078..45443

Seq. No. 45603 Seq. ID OJ000301\_15.0330.C7  
 Gene No. 96491 Strand -  
 Start 43887 End 45517  
 Name OJ000301\_15.0330.C7.o10.np Method AAT/NAP  
 Start 43890 End 45443  
 GI 3913641 Score 1914  
 Exons 43890..43958, 44073..44579, 44675..44899, 44996..45042,  
 45075..45443  
 GI Descrip. FRUCTOSE-1,6-BISPHOSPHATASE, CHLOROPLAST PRECURSOR  
 (D-FRUCTOSE-1,6-BISPHOSPHATE 1-PHOSPHOHYDROLASE) (FBPASE)  
 gi|3041777|dbj|BAA25423| (AB007194) fructose-1,6-bisphosphatase  
 [Oryza sativa]

Seq. No. 45603 Seq. ID OJ000301\_15.0330.C7  
 Gene No. 96492 Strand -  
 Start 48369 End 53304  
 Name OJ000301\_15.0330.C7.o15.gs Method GENSCAN  
 Start 48369 End 53304  
 GI none Score .55  
 Exons 48369..48472, 49697..49783, 50907..51166, 51951..52113,  
 52229..52368, 52640..52791, 53290..53304

Seq. No. 45603 Seq. ID OJ000301\_15.0330.C7  
 Gene No. 96493 Strand -  
 Start 57360 End 61636  
 Name OJ000301\_15.0330.C7.o3.tw Method TBLASTX:Wheat  
 Start 528 End 2080  
 GI none Score 243  
 Exons 528..665, 528..623, 530..664, 1080..1187, 1091..1183,  
 1288..1338, 1302..1343, 1453..1548, 1453..1545, 1454..1546,  
 1457..1546, 1814..1990, 1825..1968, 1920..1976, 2024..2080

Seq. No. 45603 Seq. ID OJ000301\_15.0330.C7  
 Gene No. 96493 Strand -  
 Start 57360 End 61636  
 Name OJ000301\_15.0330.C7.o9.tm Method TBLASTX:Maize

Start	528-	End	2241
GI	none	Score	135
Exons	528..647, 530..640, 1092..1169, 1452..1547, 1453..1548, 1454..1546, 1806..1985, 1814..2065, 1816..2070, 1816..2055, 2134..2175, 2146..2241, 2154..2234		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o5.ts	Method	TBLASTX:Soybean
Start	528	End	1999
GI	none	Score	186
Exons	528..668, 528..647, 530..646, 539..658, 1076..1159, 1080..1160, 1092..1169, 1163..1186, 1425..1547, 1453..1548, 1454..1546, 1475..1546, 1812..1988, 1814..1960, 1814..1999, 1816..1998		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o5.tc	Method	TBLASTX:Cress
Start	528	End	2040
GI	none	Score	140
Exons	528..647, 533..646, 537..668, 539..652, 1057..1182, 1080..1184, 1085..1183, 1092..1184, 1453..1548, 1454..1546, 1484..1540, 1814..1999, 1814..1999, 1816..2040, 1817..1969		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o13.tm	Method	TBLASTX:Maize
Start	3508	End	6437
GI	none	Score	167
Exons	3508..3702, 3513..3719, 4288..4362, 4482..4538, 5396..5497, 5401..5490, 5608..5676, 5615..5686, 5958..6071, 6308..6436, 6315..6437		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o6.tw	Method	TBLASTX:Wheat
Start	3513	End	3656
GI	none	Score	130
Exons	3513..3656, 3520..3651		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o8.ts	Method	TBLASTX:Soybean
Start	3513	End	4538
GI	none	Score	147
Exons	3513..3719, 3520..3702, 4288..4362, 4344..4382, 4461..4538		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o7.tc	Method	TBLASTX:Cress
Start	3513	End	3719

GI	none	Score	188
Exons	3513..3719, 3520..3702		
Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o10.ts	Method	TBLASTX:Soybean
Start	5623	End	7064
GI	none	Score	69
Exons	5623..5676, 5624..5686, 5961..6071, 6318..6437, 6320..6439, 6497..6601, 6525..6605, 6531..6608, 7005..7064		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o7.tm	Method	TBLASTX:Maize
Start	7020	End	7404
GI	none	Score	106
Exons	7020..7097, 7020..7064, 7173..7400, 7197..7400, 7207..7404		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o6.tc	Method	TBLASTX:Cress
Start	7173	End	7401
GI	none	Score	171
Exons	7173..7400, 7192..7401		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o6.ts	Method	TBLASTX:Soybean
Start	7173	End	7404
GI	none	Score	158
Exons	7173..7400, 7192..7404		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o6.tm	Method	TBLASTX:Maize
Start	8189	End	40970
GI	none	Score	110
Exons	8189..8293, 8233..8292, 8369..8728, 8371..8556, 8620..8727, 36366..36728, 36367..36732, 36739..36870, 36780..36836, 37398..37454, 37400..37456, 37529..37900, 37530..37901, 40475..40852, 40476..40835, 40889..40969, 40902..40970		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o1.tw	Method	TBLASTX:Wheat
Start	8212	End	41093
GI	none	Score	84
Exons	8212..8292, 8213..8293, 8369..8554, 8371..8556, 36535..36732, 36537..36728, 36748..36834, 36780..36833, 37400..37456, 37401..37454, 37533..37718, 37535..37720, 40653..40835, 40655..40852, 40889..40984, 40902..40985, 41037..41093		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o3.tc	Method	TBLASTX:Cress
Start	8249	End	40954
GI	none	Score	68
Exons	8249..8293, 8374..8556, 8375..8722, 8620..8721, 36367..36585, 36369..36716, 36649..36717, 36780..36866, 37413..37454, 37538..37606, 37539..37892, 37670..37891, 40485..40835, 40487..40834, 40895..40954		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o3.ts	Method	TBLASTX:Soybean
Start	8249	End	40954
GI	none	Score	82
Exons	8249..8293, 8368..8556, 8369..8737, 8620..8721, 36363..36722, 36370..36717, 36763..36822, 36780..36872, 37413..37454, 37532..37885, 37533..37886, 40484..40840, 40488..40835, 40895..40954		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o2.tw	Method	TBLASTX:Wheat
Start	11168	End	11452
GI	none	Score	283
Exons	11168..11452, 11174..11266, 11245..11385		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o16.tm	Method	TBLASTX:Maize
Start	22148	End	22945
GI	none	Score	98
Exons	22148..22195, 22229..22294, 22232..22294, 22309..22353, 22656..22784, 22666..22785, 22667..22786, 22669..22788, 22876..22908, 22877..22915, 22892..22945, 22900..22944		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o7.ts	Method	TBLASTX:Soybean
Start	22232	End	23966
GI	none	Score	81
Exons	22232..22294, 22700..22786, 22844..22942, 22876..22950, 22877..22945, 23023..23184, 23031..23072, 23050..23154, 23094..23183, 23865..23966		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o8.tc	Method	TBLASTX:Cress
Start	22235	End	23172
GI	none	Score	76

Exons 22235..22294, 22618..22638, 22700..22786, 22883..22948,  
23038..23172

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o10.tm	Method	TBLASTX:Maize
Start	23871	End	25267
GI	none	Score	128
Exons	23871..23972, 23883..23969, 24006..24239, 24036..24239, 24037..24240, 24923..24985, 24934..24999, 25133..25210, 25133..25210, 25202..25267, 25220..25255		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o15.tm	Method	TBLASTX:Maize
Start	31257	End	31557
GI	none	Score	115
Exons	31257..31370, 31257..31373, 31464..31556, 31464..31556, 31465..31557		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o2.ts	Method	TBLASTX:Soybean
Start	31721	End	35638
GI	none	Score	67
Exons	31721..31876, 31926..32036, 31935..32012, 31953..32036, 32132..32188, 32482..32544, 32639..32710, 32876..32956, 32878..32934, 33259..33411, 33266..33430, 33487..33816, 33488..33820, 34823..35086, 34840..35085, 34843..35088, 35220..35345, 35227..35361, 35228..35368, 35479..35634, 35480..35638		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o17.tm	Method	TBLASTX:Maize
Start	31783	End	32716
GI	none	Score	113
Exons	31783..31854, 31784..31855, 31785..31862, 31931..32005, 31932..32003, 31933..32019, 32132..32185, 32146..32208, 32146..32208, 32147..32230, 32148..32216, 32464..32553, 32481..32570, 32482..32550, 32483..32551, 32638..32715, 32639..32710, 32639..32716		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o2.tc	Method	TBLASTX:Cress
Start	31896	End	34909
GI	none	Score	58
Exons	31896..32021, 32147..32188, 32482..32550, 32639..32710, 32876..32932, 32878..32934, 33265..33411, 33266..33430, 33269..33412, 33487..33816, 33488..33820, 33735..33821, 34823..34909, 34840..34902		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o2.tm	Method	TBLASTX:Maize
Start	33265	End	35917
GI	none	Score	203
Exons	33265..33420, 33265..33411, 33267..33422, 33486..33836, 33488..33835, 33762..33842, 34823..35086, 34840..35085, 34842..35087, 34842..35087, 34843..35088, 35166..35369, 35209..35364, 35227..35421, 35228..35368, 35479..35691, 35480..35695, 35601..35696, 35721..35837, 35765..35803, 35790..35855, 35803..35856, 35831..35917		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o5.tw	Method	TBLASTX:Wheat
Start	34856	End	35326
GI	none	Score	239
Exons	34856..35086, 34861..35085, 35228..35293, 35285..35326		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o4.tc	Method	TBLASTX:Cress
Start	34970	End	35686
GI	none	Score	181
Exons	34970..35086, 34972..35085, 34990..35088, 35227..35367, 35228..35368, 35479..35685, 35480..35686		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o1.tc	Method	TBLASTX:Cress
Start	43884	End	45242
GI	none	Score	89
Exons	43884..43961, 43885..43959, 44049..44579, 44074..44304, 44343..44528, 44368..44571, 44681..44902, 44682..44900, 45010..45042, 45075..45242, 45076..45195		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o4.tm	Method	TBLASTX:Maize
Start	43884	End	44410
GI	none	Score	105
Exons	43884..43961, 43887..43961, 44049..44405, 44050..44304, 44274..44378, 44281..44409, 44368..44403, 44387..44410		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o1.ts	Method	TBLASTX:Soybean
Start	43887	End	45242
GI	none	Score	249
Exons	43887..43922, 43917..43961, 44100..44579, 44107..44304,		



44343..44528, 44371..44577, 44681..44902, 44682..44900,  
45010..45042, 45011..45043, 45075..45185, 45075..45242,  
45076..45195

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o4.tw	Method	TBLASTX:Wheat
Start	44037	End	44369
GI	none	Score	122
Exons	44037..44369, 44074..44286		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o5.tm	Method	TBLASTX:Maize
Start	44514	End	45423
GI	none	Score	103
Exons	44514..44579, 44515..44577, 44522..44614, 44672..44902, 44685..44900, 44881..44910, 45010..45042, 45011..45043, 45011..45043, 45075..45185, 45075..45242, 45076..45195, 45076..45255, 45385..45423		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o11.tm	Method	TBLASTX:Maize
Start	53797	End	54419
GI	none	Score	136
Exons	53797..53829, 53921..53998, 53921..54001, 54010..54066, 54047..54097, 54056..54088, 54097..54186, 54098..54184, 54143..54244, 54148..54252, 54335..54418, 54336..54419		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o9.ts	Method	TBLASTX:Soybean
Start	54113	End	56085
GI	none	Score	69
Exons	54113..54184, 54335..54445, 54336..54470, 54384..54452, 54548..54703, 54549..54674, 55987..56085, 55989..56084		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o3.tm	Method	TBLASTX:Maize
Start	56062	End	56816
GI	none	Score	276
Exons	56062..56229, 56062..56178, 56232..56441, 56233..56490, 56374..56469, 56441..56482, 56553..56612, 56554..56613, 56680..56724, 56690..56731, 56742..56816		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o4.ts	Method	TBLASTX:Soybean
Start	56089	End	56463

GI	none	Score	407
Exons	56089..56463, 56133..56177, 56223..56441		
Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o14.tm	Method	TBLASTX:Maize
Start	57161	End	57560
GI	none	Score	71
Exons	57161..57181, 57282..57440, 57287..57433, 57306..57440, 57346..57441, 57356..57460, 57426..57560, 57457..57555		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o12.np	Method	AAT/NAP
Start	57360	End	61636
GI	3980384	Score	336
Exons	57360..57672, 57780..58073, 58181..58563, 58693..58846, 61582..61636		

GI Descrip. (AC004561) unknown protein [Arabidopsis thaliana]

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o1.tm	Method	TBLASTX:Maize
Start	57592	End	58724
GI	none	Score	81
Exons	57592..57645, 57594..57644, 57727..57795, 57735..57791, 57753..57977, 57762..57974, 57811..57990, 57812..57979, 57982..58020, 57986..58027, 57990..58019, 57991..58020, 58018..58185, 58019..58186, 58084..58188, 58181..58261, 58184..58294, 58185..58295, 58260..58337, 58261..58338, 58291..58431, 58293..58445, 58301..58432, 58399..58554, 58403..58546, 58495..58716, 58544..58717, 58547..58717, 58548..58724		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o16.gp	Method	AAT/GAP
Start	58152	End	58605
GI	2428164	Score	860
Exons	58152..58605		
GI Descrip.	3980384 8.0e-10 (AC004561) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-
Start	57360	End	61636
Name	OJ000301_15.0330.C7.o12.tm	Method	TBLASTX:Maize
Start	59124	End	59405
GI	none	Score	217
Exons	59124..59399, 59134..59400, 59135..59401, 59241..59405		

Seq. No.	45603	Seq. ID	OJ000301_15.0330.C7
Gene No.	96493	Strand	-

Start	57360	End	61636
Name	OJ000301_15.0330.C7.o8.tm	Method	TBLASTX:Maize
Start	59707	End	59984
GI	none	Score	361
Exons	59707..59982, 59708..59983, 59709..59984, 59709..59984		

Seq. No.	45604	Seq. ID	OJ000301_15.0330.C8
Gene No.	96494	Strand	+
Start	60	End	597
Name	OJ000301_15.0330.C8.o1.gs	Method	GENSCAN
Start	60	End	597
GI	none	Score	.6
Exons	60..207, 503..597		

Seq. No.	45605	Seq. ID	OJ000301_15.0330.C9
Gene No.	96495	Strand	+
Start	1318	End	3893
Name	OJ000301_15.0330.C9.o1.np	Method	AAT/NAP
Start	1318	End	3890
GI	7263552	Score	853
Exons	1318..1422, 1462..1557, 1963..2139, 2232..2378, 2693..2794, 2881..2951, 3049..3116, 3652..3890		
GI Descrip.	(AL161667) Ca-dependent solute carrier-like protein [Arabidopsis thaliana]		

Seq. No.	45605	Seq. ID	OJ000301_15.0330.C9
Gene No.	96495	Strand	+
Start	1318	End	3893
Name	OJ000301_15.0330.C9.o1.gs	Method	GENSCAN
Start	1348	End	3893
GI	none	Score	.95
Exons	1348..1557, 1963..2139, 2232..2378, 2693..2794, 2881..2951, 3049..3116, 3652..3893		

Seq. No.	45605	Seq. ID	OJ000301_15.0330.C9
Gene No.	96496	Strand	+
Start	9900	End	10331
Name	OJ000301_15.0330.C9.o3.gs	Method	GENSCAN
Start	9900	End	10331
GI	none	Score	.91
Exons	9900..9925, 10208..10331		

Seq. No.	45605	Seq. ID	OJ000301_15.0330.C9
Gene No.	96497	Strand	+
Start	11080	End	12191
Name	OJ000301_15.0330.C9.o4.gs	Method	GENSCAN
Start	11080	End	12191
GI	none	Score	.89
Exons	11080..11160, 11205..11368, 12179..12191		

Seq. No.	45605	Seq. ID	OJ000301_15.0330.C9
Gene No.	96498	Strand	+
Start	19257	End	19936
Name	OJ000301_15.0330.C9.o5.gs	Method	GENSCAN
Start	19257	End	19936
GI	none	Score	.87
Exons	19257..19476, 19926..19936		

Seq. No.	45605	Seq. ID	OJ000301_15.0330.C9
Gene No.	96498	Strand	+
Start	19257	End	19936
Name	OJ000301_15.0330.C9.o4.np	Method	AAT/NAP
Start	19272	End	19480
GI	1346764	Score	252
Exons	19272..19480		
GI Descrip.	SERINE/THREONINE PROTEIN PHOSPHATASE PP1 gi 951336 gb AAA74625  (U31773) protein phosphatase 1 [Oryza sativa]		

Seq. No.	45605	Seq. ID	OJ000301_15.0330.C9
Gene No.	96499	Strand	-
Start	5634	End	8477
Name	OJ000301_15.0330.C9.o2.np	Method	AAT/NAP
Start	5631	End	8016
GI	4006886	Score	884
Exons	5631..5971, 6065..6123, 6224..6339, 6634..6696, 6882..7094, 7267..7386, 7711..7812, 7886..8016		
GI Descrip.	(Z99708) putative protein [Arabidopsis thaliana]		

Seq. No.	45605	Seq. ID	OJ000301_15.0330.C9
Gene No.	96499	Strand	-
Start	5634	End	8477
Name	OJ000301_15.0330.C9.o2.gs	Method	GENSCAN
Start	5634	End	8477
GI	none	Score	.6
Exons	5634..5971, 6065..6123, 6224..6339, 6634..6696, 7267..7386, 7509..7579, 7836..8018, 8110..8194, 8361..8477		

Seq. No.	45605	Seq. ID	OJ000301_15.0330.C9
Gene No.	96499	Strand	-
Start	5634	End	8477
Name	OJ000301_15.0330.C9.o1.gp	Method	AAT/GAP
Start	5798	End	6362
GI	LIB3432-024-P1-K1-C2	Score	606
Exons	5798..5971, 6065..6123, 6224..6362		
GI Descrip.	'4006886/emb CAB16816.1  7.0e-34 (Z99708) putative protein [Arabidopsis thaliana]'		

Seq. No.	45605	Seq. ID	OJ000301_15.0330.C9
Gene No.	96500	Strand	-
Start	8419	End	10540
Name	OJ000301_15.0330.C9.o2.gp	Method	AAT/GAP
Start	8419	End	10540
GI	none	Score	827
Exons	8419..8494, 8884..9075, 10354..10540		

Seq. No.	45605	Seq. ID	OJ000301_15.0330.C9
Gene No.	96501	Strand	-
Start	11528	End	21370
Name	OJ000301_15.0330.C9.o5.ts	Method	TBLASTX:Soybean
Start	1323	End	2088
GI	none	Score	38
Exons	1323..1349, 1324..1350, 1464..1550, 1465..1563, 1957..2088, 1977..2084		

Seq. No.	45605	Seq. ID	OJ000301_15.0330.C9
Gene No.	96501	Strand	-
Start	11528	End	21370
Name	OJ000301_15.0330.C9.o3.tc	Method	TBLASTX:Cress
Start	1987	End	3931
GI	none	Score	66
Exons	1987..2136, 3668..3874, 3669..3887, 3740..3931		

Seq. No.	45605	Seq. ID	OJ000301_15.0330.C9
Gene No.	96501	Strand	-
Start	11528	End	21370
Name	OJ000301_15.0330.C9.o3.tm	Method	TBLASTX:Maize
Start	2061	End	2749
GI	none	Score	134
Exons	2061..2138, 2062..2142, 2232..2384, 2240..2374, 2309..2422, 2690..2749, 2700..2747		

Seq. No.	45605	Seq. ID	OJ000301_15.0330.C9
Gene No.	96501	Strand	-
Start	11528	End	21370
Name	OJ000301_15.0330.C9.o5.tm	Method	TBLASTX:Maize
Start	2892	End	3761
GI	none	Score	61
Exons	2892..2951, 2892..2951, 2893..2952, 3046..3111, 3048..3119, 3048..3107, 3641..3754, 3653..3760, 3654..3761		

Seq. No.	45605	Seq. ID	OJ000301_15.0330.C9
Gene No.	96501	Strand	-
Start	11528	End	21370
Name	OJ000301_15.0330.C9.o2.ts	Method	TBLASTX:Soybean
Start	3636	End	3884
GI	none	Score	312
Exons	3636..3884, 3653..3880		

Seq. No.	45605	Seq. ID	OJ000301_15.0330.C9
Gene No.	96501	Strand	-
Start	11528	End	21370
Name	OJ000301_15.0330.C9.o1.tm	Method	TBLASTX:Maize
Start	5539	End	7100
GI	none	Score	113
Exons	5539..5586, 5628..5807, 5633..5812, 5633..5797, 5634..5813, 5635..5817, 5868..5972, 5869..5976, 5891..5977, 6060..6110, 6062..6124, 6063..6125, 6064..6126, 6208..6339, 6209..6340, 6646..6699, 6881..7096, 6882..7097, 6882..7100, 6883..7098		

Seq. No.	45605	Seq. ID	OJ000301_15.0330.C9
Gene No.	96501	Strand	-
Start	11528	End	21370
Name	OJ000301_15.0330.C9.o3.ts	Method	TBLASTX:Soybean
Start	5625	End	6122
GI	none	Score	98
Exons	5625..5813, 5641..5811, 5802..5972, 5899..5976, 6063..6122, 6064..6120		

Seq. No.	45605	Seq. ID	OJ000301_15.0330.C9
Gene No.	96501	Strand	-
Start	11528	End	21370

Name	OJ000301_15.0330.C9.o4.tc	Method	TBLASTX:Cress
Start	5715	End	6309
GI	none	Score	53
Exons	5715..5813, 5716..5817, 5898..5984, 5905..5979, 6063..6125, 6064..6126, 6223..6309		

Seq. No.	45605	Seq. ID	OJ000301_15.0330.C9
Gene No.	96501	Strand	-
Start	11528	End	21370
Name	OJ000301_15.0330.C9.o1.ts	Method	TBLASTX:Soybean
Start	6646	End	7986
GI	none	Score	163
Exons	6646..6696, 6883..7095, 6888..7109, 6889..7110, 7267..7386, 7268..7387, 7506..7595, 7519..7572, 7685..7810, 7692..7808, 7930..7986		

Seq. No.	45605	Seq. ID	OJ000301_15.0330.C9
Gene No.	96501	Strand	-
Start	11528	End	21370
Name	OJ000301_15.0330.C9.o1.tc	Method	TBLASTX:Cress
Start	6858	End	7377
GI	none	Score	147
Exons	6858..7109, 6877..7110, 6925..7110, 7267..7377, 7268..7369		

Seq. No.	45605	Seq. ID	OJ000301_15.0330.C9
Gene No.	96501	Strand	-
Start	11528	End	21370
Name	OJ000301_15.0330.C9.o2.tm	Method	TBLASTX:Maize
Start	7553	End	8463
GI	none	Score	63
Exons	7553..7597, 7554..7598, 7554..7598, 7673..7807, 7680..7808, 7690..7821, 7900..8019, 7901..7960, 7906..7995, 8126..8194, 8131..8196, 8394..8459, 8395..8460, 8398..8463		

Seq. No.	45605	Seq. ID	OJ000301_15.0330.C9
Gene No.	96501	Strand	-
Start	11528	End	21370
Name	OJ000301_15.0330.C9.o3.np	Method	AAT/NAP
Start	11528	End	21370
GI	7340868	Score	110
Exons	11528..11575, 14926..15115, 20847..20927, 21325..21370		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	45605	Seq. ID	OJ000301_15.0330.C9
Gene No.	96501	Strand	-
Start	11528	End	21370
Name	OJ000301_15.0330.C9.o1.tw	Method	TBLASTX:Wheat
Start	19299	End	19479
GI	none	Score	255
Exons	19299..19478, 19349..19477, 19396..19479		

Seq. No.	45605	Seq. ID	OJ000301_15.0330.C9
Gene No.	96501	Strand	-
Start	11528	End	21370
Name	OJ000301_15.0330.C9.o4.tm	Method	TBLASTX:Maize
Start	19299	End	19479
GI	none	Score	282

Exons 19299..19478, 19349..19477, 19396..19479

Seq. No.	45605	Seq. ID	OJ000301_15.0330.C9
Gene No.	96501	Strand	-
Start	11528	End	21370
Name	OJ000301_15.0330.C9.o4.ts	Method	TBLASTX:Soybean
Start	19299	End	19478
GI	none	Score	247
Exons	19299..19478, 19352..19477		

Seq. No.	45605	Seq. ID	OJ000301_15.0330.C9
Gene No.	96501	Strand	-
Start	11528	End	21370
Name	OJ000301_15.0330.C9.o2.tc	Method	TBLASTX:Cress
Start	19299	End	19478
GI	none	Score	249
Exons	19299..19478, 19352..19477		

Seq. No.	45606	Seq. ID	OJ000301_15.0330.C10
Gene No.	96502	Strand	+
Start	372	End	3170
Name	OJ000301_15.0330.C10.o1.tc	Method	TBLASTX:Cress
Start	338	End	1208
GI	none	Score	985
Exons	338..934, 372..935, 1014..1121, 1014..1208, 1015..1206		

Seq. No.	45606	Seq. ID	OJ000301_15.0330.C10
Gene No.	96502	Strand	+
Start	372	End	3170
Name	OJ000301_15.0330.C10.o1.tm	Method	TBLASTX:Maize
Start	359	End	2950
GI	none	Score	571
Exons	359..934, 371..925, 372..935, 373..933, 1015..1206, 1017..1208, 2627..2689, 2628..2690, 2682..2846, 2694..2741, 2704..2847, 2807..2884, 2838..2885, 2848..2886, 2848..2907, 2892..2945, 2895..2945, 2896..2949, 2897..2950		

Seq. No.	45606	Seq. ID	OJ000301_15.0330.C10
Gene No.	96502	Strand	+
Start	372	End	3170
Name	OJ000301_15.0330.C10.o1.ts	Method	TBLASTX:Soybean
Start	371	End	1176
GI	none	Score	924
Exons	371..934, 372..935, 996..1169, 1014..1154, 1015..1176		

Seq. No.	45606	Seq. ID	OJ000301_15.0330.C10
Gene No.	96502	Strand	+
Start	372	End	3170
Name	OJ000301_15.0330.C10.o1.gp	Method	AAT/GAP
Start	372	End	3170
GI	507_1.R1084	Score	2582
Exons	372..932, 1018..1242, 2629..3170		
GI Descrip.	'1346764/sp P48489 PP1_ORYSA 1.0e-175 SERINE/THREONINE PROTEIN PHOSPHATASE PP1 >gi_951336_gb_AAA74625_ (U31773) protein phosphatase 1 [Oryza sativa]'		

Seq. No.	45606	Seq. ID	OJ000301_15.0330.C10
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Gene No.	96502	Strand	+
Start	372	End	3170
Name	OJ000301_15.0330.C10.o1.gs	Method	GENSCAN
Start	373	End	1206
GI	none	Score	.9
Exons	373..932, 1018..1206		
Seq. No.	45606	Seq. ID	OJ000301_15.0330.C10
Gene No.	96502	Strand	+
Start	372	End	3170
Name	OJ000301_15.0330.C10.o1.np	Method	AAT/NAP
Start	373	End	1203
GI	1346764	Score	1275
Exons	373..932, 1018..1203		
GI Descrip.	SERINE/THREONINE PROTEIN PHOSPHATASE PP1 gi 951336 gb AAA74625  (U31773) protein phosphatase 1 [Oryza sativa]		
Seq. No.	45606	Seq. ID	OJ000301_15.0330.C10
Gene No.	96502	Strand	+
Start	372	End	3170
Name	OJ000301_15.0330.C10.o1.tw	Method	TBLASTX:Wheat
Start	375	End	805
GI	none	Score	731
Exons	375..803, 376..804, 377..805		
Seq. No.	45606	Seq. ID	OJ000301_15.0330.C10
Gene No.	96502	Strand	+
Start	372	End	3170
Name	OJ000301_15.0330.C10.o2.tw	Method	TBLASTX:Wheat
Start	854	End	1174
GI	none	Score	124
Exons	854..925, 858..935, 1015..1167, 1016..1048, 1017..1172, 1017..1166, 1082..1174		
Seq. No.	45607	Seq. ID	OJ000301_15.0330.C11
Gene No.	96503	Strand	+
Start	2075	End	2389
Name	OJ000301_15.0330.C11.o1.gp	Method	AAT/GAP
Start	2075	End	2389
GI	none	Score	618
Exons	2075..2389		
Seq. No.	45607	Seq. ID	OJ000301_15.0330.C11
Gene No.	96504	Strand	-
Start	799	End	5476
Name	OJ000301_15.0330.C11.o1.gs	Method	GENSCAN
Start	799	End	5476
GI	none	Score	.78
Exons	799..898, 2480..2589, 2966..3070, 3150..3239, 3527..3621, 3741..3909, 4001..4153, 4216..4284, 4298..4510, 4825..4853, 4989..5076, 5205..5350, 5443..5476		
Seq. No.	45607	Seq. ID	OJ000301_15.0330.C11
Gene No.	96504	Strand	-
Start	799	End	5476
Name	OJ000301_15.0330.C11.o2.gp	Method	AAT/GAP
Start	3871	End	5363



GI	none	Score	1283
Exons	3871..3909, 4001..4153, 4216..4284, 4370..4447, 4555..4608, 4691..4765, 4884..4906, 4989..5076, 5205..5363		

Seq. No.	45607	Seq. ID	OJ000301_15.0330.C11
Gene No.	96505	Strand	-
Start	6493	End	6696
Name	OJ000301_15.0330.C11.o1.tm	Method	TBLASTX:Maize
Start	2300	End	3075
GI	none	Score	108
Exons	2300..2386, 2305..2391, 2318..2392, 2477..2563, 2479..2595, 2482..2592, 2697..2897, 2698..2871, 2935..3075, 2963..3073		

Seq. No.	45607	Seq. ID	OJ000301_15.0330.C11
Gene No.	96505	Strand	-
Start	6493	End	6696
Name	OJ000301_15.0330.C11.o1.ts	Method	TBLASTX:Soybean
Start	2466	End	2847
GI	none	Score	112
Exons	2466..2591, 2479..2595, 2697..2846, 2698..2847, 2725..2847		

Seq. No.	45607	Seq. ID	OJ000301_15.0330.C11
Gene No.	96505	Strand	-
Start	6493	End	6696
Name	OJ000301_15.0330.C11.o2.ts	Method	TBLASTX:Soybean
Start	2963	End	3283
GI	none	Score	70
Exons	2963..3073, 2964..3020, 3147..3257, 3152..3283		

Seq. No.	45607	Seq. ID	OJ000301_15.0330.C11
Gene No.	96505	Strand	-
Start	6493	End	6696
Name	OJ000301_15.0330.C11.o2.tm	Method	TBLASTX:Maize
Start	4210	End	5228
GI	none	Score	98
Exons	4210..4284, 4211..4285, 4350..4448, 4369..4458, 4370..4447, 4553..4645, 4555..4608, 4688..4765, 4690..4797, 4691..4768, 4693..4773, 4987..5037, 5035..5076, 5202..5228		

Seq. No.	45607	Seq. ID	OJ000301_15.0330.C11
Gene No.	96505	Strand	-
Start	6493	End	6696
Name	OJ000301_15.0330.C11.o3.gp	Method	AAT/GAP
Start	6168	End	6631
GI	none	Score	883
Exons	6168..6631		

Seq. No.	45607	Seq. ID	OJ000301_15.0330.C11
Gene No.	96505	Strand	-
Start	6493	End	6696
Name	OJ000301_15.0330.C11.o2.gs	Method	GENSCAN
Start	6493	End	6696
GI	none	Score	.57
Exons	6493..6696		

Seq. No.	45608	Seq. ID	OJ000301_14.0330.C2
Gene No.	96506	Strand	-

Start 1418  
 Name OJ000301\_14.0330.C2.o1.gs  
 Start 1418  
 GI none  
 Exons 1418..1596

End 1596  
 Method GENSCAN  
 End 1596  
 Score .8

Seq. No. 45608  
 Gene No. 96507  
 Start 4057  
 Name OJ000301\_14.0330.C2.o1.gp  
 Start 3846  
 GI 2799714  
 Exons 3846..3954, 4045..4203

Seq. ID OJ000301\_14.0330.C2  
 Strand -  
 End 8205  
 Method AAT/GAP  
 End 4203  
 Score 351

Seq. No. 45608  
 Gene No. 96507  
 Start 4057  
 Name OJ000301\_14.0330.C2.o3.tm  
 Start 4051  
 GI none  
 Exons 4051..4284, 4109..4282

Seq. ID OJ000301\_14.0330.C2  
 Strand -  
 End 8205  
 Method TBLASTX:Maize  
 End 4284  
 Score 121

Seq. No. 45608  
 Gene No. 96507  
 Start 4057  
 Name OJ000301\_14.0330.C2.o2.gs  
 Start 4057  
 GI none  
 Exons 4057..4281, 4365..4412, 4615..4647, 4757..4816, 5130..5192,

Seq. ID OJ000301\_14.0330.C2  
 Strand -  
 End 8205  
 Method GENSCAN  
 End 8205  
 Score .83  
 5271..5318, 5436..5501, 5779..5844, 5946..6011, 6261..6344,  
 6596..6940, 7024..7119, 7213..7305, 7415..7618, 7720..8012,  
 8091..8205

Seq. No. 45608  
 Gene No. 96507  
 Start 4057  
 Name OJ000301\_14.0330.C2.o2.tm  
 Start 6800  
 GI none  
 Exons 6800..6934, 6801..6932, 6811..6942, 6840..6941, 7015..7089,  
 7021..7089, 7036..7095

Seq. ID OJ000301\_14.0330.C2  
 Strand -  
 End 8205  
 Method TBLASTX:Maize  
 End 7095  
 Score 120

Seq. No. 45608  
 Gene No. 96507  
 Start 4057  
 Name OJ000301\_14.0330.C2.o1.tm  
 Start 7433  
 GI none  
 Exons 7433..7627, 7433..7618, 7492..7620, 7714..7770, 7717..7755,  
 7750..7947, 7770..7952, 7775..7945, 7954..7995

Seq. ID OJ000301\_14.0330.C2  
 Strand -  
 End 8205  
 Method TBLASTX:Maize  
 End 7995  
 Score 98

Seq. No. 45609  
 Gene No. 96508  
 Start 309  
 Name OJ000301\_14.0330.C3.o1.gs  
 Start 309  
 GI none

Seq. ID OJ000301\_14.0330.C3  
 Strand +  
 End 520  
 Method GENSCAN  
 End 520  
 Score .45

Exons 309..402, 441..520

Seq. No.	45609	Seq. ID	OJ000301_14.0330.C3
Gene No.	96509	Strand	+
Start	6805	End	10732
Name	OJ000301_14.0330.C3.o3.gs	Method	GENSCAN
Start	6805	End	10732
GI	none	Score	.42
Exons	6805..6877, 7005..7208, 9231..9563, 9601..9784, 10197..10376, 10672..10732		

Seq. No.	45609	Seq. ID	OJ000301_14.0330.C3
Gene No.	96510	Strand	-
Start	145	End	493
Name	OJ000301_14.0330.C3.o1.gp	Method	AAT/GAP
Start	145	End	493
GI	3548947	Score	599
Exons	145..493		

Seq. No.	45609	Seq. ID	OJ000301_14.0330.C3
Gene No.	96511	Strand	-
Start	2325	End	9497
Name	OJ000301_14.0330.C3.o2.gs	Method	GENSCAN
Start	2325	End	6495
GI	none	Score	.59
Exons	2325..2336, 2947..3195, 3352..3597, 3660..3762, 3841..4161, 4260..4452, 4674..5306, 5469..5673, 6070..6495		

Seq. No.	45609	Seq. ID	OJ000301_14.0330.C3
Gene No.	96511	Strand	-
Start	2325	End	9497
Name	OJ000301_14.0330.C3.o1.np	Method	AAT/NAP
Start	3053	End	3779
GI	5732031	Score	279
Exons	3053..3572, 3647..3779		
GI Descrip.	(AF147260) No definition line found [Arabidopsis thaliana]		

Seq. No.	45609	Seq. ID	OJ000301_14.0330.C3
Gene No.	96511	Strand	-
Start	2325	End	9497
Name	OJ000301_14.0330.C3.o2.np	Method	AAT/NAP
Start	4032	End	6894
GI	5911167	Score	1560
Exons	4032..4161, 4260..6420, 6823..6894		
GI Descrip.	(AF136221) putative transposase protein [Zea mays]		

Seq. No.	45609	Seq. ID	OJ000301_14.0330.C3
Gene No.	96511	Strand	-
Start	2325	End	9497
Name	OJ000301_14.0330.C3.o3.np	Method	AAT/NAP
Start	5116	End	9497
GI	7106516	Score	104
Exons	5116..5136, 6962..7128, 9378..9497		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	45609	Seq. ID	OJ000301_14.0330.C3
Gene No.	96512	Strand	-

Start	12880	End	13467
Name	OJ000301_14.0330.C3.o1.tw	Method	TBLASTX:Wheat
Start	3199	End	4609
GI	none	Score	66
Exons	3199..3375, 4045..4164, 4047..4178, 4256..4609, 4290..4382, 4437..4556		

Seq. No.	45609	Seq. ID	OJ000301_14.0330.C3
Gene No.	96512	Strand	-
Start	12880	End	13467
Name	OJ000301_14.0330.C3.o3.tm	Method	TBLASTX:Maize
Start	3313	End	3600
GI	none	Score	73
Exons	3313..3597, 3320..3394, 3322..3450, 3324..3593, 3484..3600		

Seq. No.	45609	Seq. ID	OJ000301_14.0330.C3
Gene No.	96512	Strand	-
Start	12880	End	13467
Name	OJ000301_14.0330.C3.o2.tm	Method	TBLASTX:Maize
Start	4259	End	4612
GI	none	Score	68
Exons	4259..4405, 4259..4612, 4260..4610, 4502..4612		

Seq. No.	45609	Seq. ID	OJ000301_14.0330.C3
Gene No.	96512	Strand	-
Start	12880	End	13467
Name	OJ000301_14.0330.C3.o1.ts	Method	TBLASTX:Soybean
Start	4271	End	4612
GI	none	Score	84
Exons	4271..4510, 4272..4391, 4520..4612		

Seq. No.	45609	Seq. ID	OJ000301_14.0330.C3
Gene No.	96512	Strand	-
Start	12880	End	13467
Name	OJ000301_14.0330.C3.o4.tm	Method	TBLASTX:Maize
Start	4747	End	4953
GI	none	Score	113
Exons	4747..4953, 4748..4879		

Seq. No.	45609	Seq. ID	OJ000301_14.0330.C3
Gene No.	96512	Strand	-
Start	12880	End	13467
Name	OJ000301_14.0330.C3.o2.ts	Method	TBLASTX:Soybean
Start	5017	End	5256
GI	none	Score	92
Exons	5017..5256, 5039..5254		

Seq. No.	45609	Seq. ID	OJ000301_14.0330.C3
Gene No.	96512	Strand	-
Start	12880	End	13467
Name	OJ000301_14.0330.C3.o1.tm	Method	TBLASTX:Maize
Start	5086	End	5539
GI	none	Score	121
Exons	5086..5283, 5087..5281, 5296..5529, 5303..5539		

Seq. No.	45609	Seq. ID	OJ000301_14.0330.C3
Gene No.	96512	Strand	-

Start 12880  
 Name OJ000301\_14.0330.C3.o2.tw  
 Start 5299  
 GI none  
 Exons 5299..5586, 5306..5581

End 13467  
 Method TBLASTX:Wheat  
 End 5586  
 Score 144

Seq. No. 45609  
 Gene No. 96512  
 Start 12880  
 Name OJ000301\_14.0330.C3.o1.tc  
 Start 5374  
 GI none  
 Exons 5374..5595, 5393..5533, 5617..5706, 5618..5725

Seq. ID OJ000301\_14.0330.C3  
 Strand -  
 End 13467  
 Method TBLASTX:Cress  
 End 5725  
 Score 57

Seq. No. 45609  
 Gene No. 96512  
 Start 12880  
 Name OJ000301\_14.0330.C3.o3.ts  
 Start 5761  
 GI none  
 Exons 5761..5997, 5825..6019

Seq. ID OJ000301\_14.0330.C3  
 Strand -  
 End 13467  
 Method TBLASTX:Soybean  
 End 6019  
 Score 60

Seq. No. 45609  
 Gene No. 96512  
 Start 12880  
 Name OJ000301\_14.0330.C3.o2.gp  
 Start 12880  
 GI 6547\_2.R1084  
 Exons 12880..13103, 13345..13467

Seq. ID OJ000301\_14.0330.C3  
 Strand -  
 End 13467  
 Method AAT/GAP  
 End 13467  
 Score 455

GI Descrip. '5257255/dbj|AP000364.1|AP000364 6.0e-30 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'

Seq. No. 45609  
 Gene No. 96512  
 Start 12880  
 Name OJ000301\_14.0330.C3.o4.np  
 Start 13321  
 GI 6907106  
 Exons 13321..13467

Seq. ID OJ000301\_14.0330.C3  
 Strand -  
 End 13467  
 Method AAT/NAP  
 End 13467  
 Score 146

GI Descrip. (AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No. 45610  
 Gene No. 96513  
 Start 119  
 Name OJ000301\_14.0330.C4.o1.gs  
 Start 119  
 GI none  
 Exons 119..391

Seq. ID OJ000301\_14.0330.C4  
 Strand +  
 End 391  
 Method GENSCAN  
 End 391  
 Score 1

Seq. No. 45610  
 Gene No. 96514  
 Start 1425  
 Name OJ000301\_14.0330.C4.o2.gs  
 Start 1425  
 GI none  
 Exons 1425..1546, 1909..2371, 4250..4264

Seq. ID OJ000301\_14.0330.C4  
 Strand +  
 End 4264  
 Method GENSCAN  
 End 4264  
 Score .7

Seq. No.	45610	Seq. ID	OJ000301_14.0330.C4
Gene No.	96515	Strand	+
Start	17152	End	20445
Name	OJ000301_14.0330.C4.o5.gs	Method	GENSCAN
Start	17152	End	19427
GI	none	Score	.6
Exons	17152..17280, 17329..17421, 17857..17932, 18368..18854, 18995..19427		

Seq. No.	45610	Seq. ID	OJ000301_14.0330.C4
Gene No.	96515	Strand	+
Start	17152	End	20445
Name	OJ000301_14.0330.C4.o3.np	Method	AAT/NAP
Start	18004	End	20445
GI	4680203	Score	504
Exons	18004..18237, 18514..19238, 20422..20445		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	45610	Seq. ID	OJ000301_14.0330.C4
Gene No.	96516	Strand	+
Start	23236	End	23634
Name	OJ000301_14.0330.C4.o2.gp	Method	AAT/GAP
Start	23236	End	23634
GI	1036889	Score	426
Exons	23236..23634		

Seq. No.	45610	Seq. ID	OJ000301_14.0330.C4
Gene No.	96517	Strand	+
Start	31440	End	31991
Name	OJ000301_14.0330.C4.o3.gp	Method	AAT/GAP
Start	31440	End	31991
GI	4879016	Score	797
Exons	31440..31991		
GI Descrip.	6041757/gb AC011806.1 AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence		

Seq. No.	45610	Seq. ID	OJ000301_14.0330.C4
Gene No.	96518	Strand	-
Start	1	End	2902
Name	OJ000301_14.0330.C4.o1.np	Method	AAT/NAP
Start	1	End	2902
GI	7106512	Score	71
Exons	1..147, 2721..2769, 2842..2902		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	45610	Seq. ID	OJ000301_14.0330.C4
Gene No.	96519	Strand	-
Start	5308	End	16189
Name	OJ000301_14.0330.C4.o2.np	Method	AAT/NAP
Start	5308	End	16189
GI	7248395	Score	1839
Exons	5308..5832, 5906..6051, 6245..6896, 12975..13638, 16164..16189		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	45610	Seq. ID	OJ000301_14.0330.C4
Gene No.	96519	Strand	-
Start	5308	End	16189
Name	OJ000301_14.0330.C4.o3.gs	Method	GENSCAN
Start	6216	End	9893
GI	none	Score	.59
Exons	6216..7017, 7339..7464, 8275..8341, 8864..8918, 9630..9893		

Seq. No.	45610	Seq. ID	OJ000301_14.0330.C4
Gene No.	96519	Strand	-
Start	5308	End	16189
Name	OJ000301_14.0330.C4.o1.gp	Method	AAT/GAP
Start	9357	End	9900
GI	3548963	Score	958
Exons	9357..9900		

Seq. No.	45610	Seq. ID	OJ000301_14.0330.C4
Gene No.	96519	Strand	-
Start	5308	End	16189
Name	OJ000301_14.0330.C4.o4.gs	Method	GENSCAN
Start	12932	End	15717
GI	none	Score	.48
Exons	12932..13680, 14332..14453, 15635..15717		

Seq. No.	45610	Seq. ID	OJ000301_14.0330.C4
Gene No.	96520	Strand	-
Start	23493	End	33481
Name	OJ000301_14.0330.C4.o5.tm	Method	TBLASTX:Maize
Start	10090	End	10725
GI	none	Score	45
Exons	10090..10209, 10143..10178, 10263..10358, 10305..10361, 10357..10479, 10360..10485, 10369..10491, 10374..10490, 10375..10485, 10378..10518, 10380..10490, 10382..10495, 10504..10563, 10510..10563, 10525..10617, 10546..10722, 10554..10646, 10555..10725, 10564..10719, 10579..10698, 10608..10718, 10631..10696		

Seq. No.	45610	Seq. ID	OJ000301_14.0330.C4
Gene No.	96520	Strand	-
Start	23493	End	33481
Name	OJ000301_14.0330.C4.o2.tw	Method	TBLASTX:Wheat
Start	17362	End	17868
GI	none	Score	195
Exons	17362..17649, 17484..17672, 17701..17820, 17707..17826, 17818..17868		

Seq. No.	45610	Seq. ID	OJ000301_14.0330.C4
Gene No.	96520	Strand	-
Start	23493	End	33481
Name	OJ000301_14.0330.C4.o1.ts	Method	TBLASTX:Soybean
Start	17374	End	17649
GI	none	Score	277
Exons	17374..17649, 17388..17540		

Seq. No.	45610	Seq. ID	OJ000301_14.0330.C4
Gene No.	96520	Strand	-
Start	23493	End	33481

Name	OJ000301_14.0330.C4.o2.tm	Method	TBLASTX:Maize
Start	18091	End	18474
GI	none	Score	63
Exons	18091..18159, 18159..18470, 18160..18474		
Seq. No.	45610	Seq. ID	OJ000301_14.0330.C4
Gene No.	96520	Strand	-
Start	23493	End	33481
Name	OJ000301_14.0330.C4.o1.tw	Method	TBLASTX:Wheat
Start	18115	End	19295
GI	none	Score	476
Exons	18115..18834, 18370..18630, 18849..18995, 18856..18978, 18999..19103, 19032..19085, 19107..19214, 19121..19213, 19209..19277, 19227..19295		
Seq. No.	45610	Seq. ID	OJ000301_14.0330.C4
Gene No.	96520	Strand	-
Start	23493	End	33481
Name	OJ000301_14.0330.C4.o1.tc	Method	TBLASTX:Cress
Start	18406	End	18834
GI	none	Score	289
Exons	18406..18834, 18442..18630		
Seq. No.	45610	Seq. ID	OJ000301_14.0330.C4
Gene No.	96520	Strand	-
Start	23493	End	33481
Name	OJ000301_14.0330.C4.o7.gs	Method	GENSCAN
Start	23493	End	24383
GI	none	Score	.83
Exons	23493..23605, 23665..23782, 23914..24032, 24194..24383		
Seq. No.	45610	Seq. ID	OJ000301_14.0330.C4
Gene No.	96520	Strand	-
Start	23493	End	33481
Name	OJ000301_14.0330.C4.o4.np	Method	AAT/NAP
Start	23657	End	26027
GI	7485468	Score	958
Exons	23657..23782, 23914..24032, 24194..24432, 24749..24794, 24899..24978, 25141..25685, 25792..26027		
GI Descrip.	hypothetical protein F13P17.20 - Arabidopsis thaliana gi 3337367 gb AAC27412.1  (AC004481) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	45610	Seq. ID	OJ000301_14.0330.C4
Gene No.	96520	Strand	-
Start	23493	End	33481
Name	OJ000301_14.0330.C4.o3.tc	Method	TBLASTX:Cress
Start	24192	End	24974
GI	none	Score	90
Exons	24192..24434, 24193..24435, 24889..24963, 24891..24974		
Seq. No.	45610	Seq. ID	OJ000301_14.0330.C4
Gene No.	96520	Strand	-
Start	23493	End	33481
Name	OJ000301_14.0330.C4.o4.tm	Method	TBLASTX:Maize
Start	24195	End	24441
GI	none	Score	213



Exons 24195..24428, 24195..24434, 24196..24435, 24217..24441

Seq. No.	45610	Seq. ID	OJ000301_14.0330.C4
Gene No.	96520	Strand	-
Start	23493	End	33481
Name	OJ000301_14.0330.C4.o3.tw	Method	TBLASTX:Wheat
Start	24396	End	25325
GI	none	Score	70
Exons	24396..24434, 24751..24822, 24891..24974, 24892..24963, 25132..25266, 25143..25322, 25143..25325		

Seq. No.	45610	Seq. ID	OJ000301_14.0330.C4
Gene No.	96520	Strand	-
Start	23493	End	33481
Name	OJ000301_14.0330.C4.o2.ts	Method	TBLASTX:Soybean
Start	24891	End	25686
GI	none	Score	67
Exons	24891..24986, 24912..24989, 25143..25535, 25608..25682, 25636..25686		

Seq. No.	45610	Seq. ID	OJ000301_14.0330.C4
Gene No.	96520	Strand	-
Start	23493	End	33481
Name	OJ000301_14.0330.C4.o8.gs	Method	GENSCAN
Start	25089	End	33481
GI	none	Score	.61
Exons	25089..25685, 25792..26100, 27564..27607, 27658..27763, 30005..30122, 33027..33481		

Seq. No.	45610	Seq. ID	OJ000301_14.0330.C4
Gene No.	96520	Strand	-
Start	23493	End	33481
Name	OJ000301_14.0330.C4.o1.tm	Method	TBLASTX:Maize
Start	25141	End	25505
GI	none	Score	106
Exons	25141..25275, 25143..25505, 25230..25505		

Seq. No.	45610	Seq. ID	OJ000301_14.0330.C4
Gene No.	96520	Strand	-
Start	23493	End	33481
Name	OJ000301_14.0330.C4.o2.tc	Method	TBLASTX:Cress
Start	25345	End	25959
GI	none	Score	41
Exons	25345..25425, 25410..25670, 25410..25535, 25611..25700, 25783..25959, 25784..25957		

Seq. No.	45610	Seq. ID	OJ000301_14.0330.C4
Gene No.	96520	Strand	-
Start	23493	End	33481
Name	OJ000301_14.0330.C4.o3.tm	Method	TBLASTX:Maize
Start	25587	End	25959
GI	none	Score	124
Exons	25587..25682, 25607..25687, 25615..25683, 25789..25959, 25790..25948, 25876..25950		

Seq. No.	45611	Seq. ID	OJ000301_14.0330.C5
Gene No.	96521	Strand	-

Start	194	End	1621
Name	OJ000301_14.0330.C5.o1.gs	Method	GENSCAN
Start	194	End	1563
GI	none	Score	.73
Exons	194..306, 707..771, 1201..1276, 1374..1563		

Seq. No.	45611	Seq. ID	OJ000301_14.0330.C5
Gene No.	96521	Strand	-
Start	194	End	1621
Name	OJ000301_14.0330.C5.o1.np	Method	AAT/NAP
Start	825	End	1614
GI	7485468	Score	318
Exons	825..950, 1100..1218, 1374..1614		
GI Descrip.	hypothetical protein F13P17.20 - Arabidopsis thaliana gi 3337367 gb AAC27412.1  (AC004481) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	45611	Seq. ID	OJ000301_14.0330.C5
Gene No.	96521	Strand	-
Start	194	End	1621
Name	OJ000301_14.0330.C5.o1.tm	Method	TBLASTX:Maize
Start	1375	End	1621
GI	none	Score	269
Exons	1375..1521, 1376..1615, 1377..1610, 1397..1621		

Seq. No.	45612	Seq. ID	OJ000301_14.0330.C6
Gene No.	96522	Strand	+
Start	3964	End	14682
Name	OJ000301_14.0330.C6.o2.np	Method	AAT/NAP
Start	3964	End	6895
GI	6498436	Score	599
Exons	3964..3986, 6204..6511, 6766..6895		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	45612	Seq. ID	OJ000301_14.0330.C6
Gene No.	96522	Strand	+
Start	3964	End	14682
Name	OJ000301_14.0330.C6.o3.gs	Method	GENSCAN
Start	6218	End	12356
GI	none	Score	.51
Exons	6218..6446, 6777..6894, 7144..7197, 7409..7491, 7835..7936, 9141..9312, 9993..10194, 11491..11658, 11690..11752, 11872..11993, 12347..12356		

Seq. No.	45612	Seq. ID	OJ000301_14.0330.C6
Gene No.	96522	Strand	+
Start	3964	End	14682
Name	OJ000301_14.0330.C6.o4.np	Method	AAT/NAP
Start	7155	End	12979
GI	7485606	Score	473
Exons	7155..7217, 9499..11427, 12947..12979		
GI Descrip.	hypothetical protein F17A8.60 - Arabidopsis thaliana gi 4538901 emb CAB39638.1  (AL049482) RNA-directed DNA polymerase-like protein [Arabidopsis thaliana] gi 7267666 emb CAB78094.1  (AL161515) RNA-directed DNA polymerase-like protein [Arabidopsis thaliana]		

Seq. No.	45612	Seq. ID	OJ000301_14.0330.C6
Gene No.	96522	Strand	+
Start	3964	End	14682
Name	OJ000301_14.0330.C6.o5.np	Method	AAT/NAP
Start	11561	End	14682
GI	7485468	Score	333
Exons	11561..11967, 12496..12578, 12703..12750, 12896..13093, 14659..14682		

GI Descrip. hypothetical protein F13P17.20 - Arabidopsis thaliana  
gi|3337367|gb|AAC27412.1| (AC004481) hypothetical protein  
[Arabidopsis thaliana]

Seq. No.	45612	Seq. ID	OJ000301_14.0330.C6
Gene No.	96523	Strand	+
Start	18961	End	20915
Name	OJ000301_14.0330.C6.o9.np	Method	AAT/NAP
Start	18961	End	20915
GI	4680186	Score	173
Exons	18961..19041, 20712..20915		

GI Descrip. (AF111709) unknown [Oryza sativa subsp. indica]

Seq. No.	45612	Seq. ID	OJ000301_14.0330.C6
Gene No.	96524	Strand	-
Start	1	End	4111
Name	OJ000301_14.0330.C6.o1.np	Method	AAT/NAP
Start	1	End	3938
GI	6692734	Score	614
Exons	1..109, 1556..1642, 3040..3583, 3687..3938		

GI Descrip. (AC012679) putative integral membrane protein [Arabidopsis thaliana]

Seq. No.	45612	Seq. ID	OJ000301_14.0330.C6
Gene No.	96524	Strand	-
Start	1	End	4111
Name	OJ000301_14.0330.C6.o2.gs	Method	GENSCAN
Start	2982	End	4111
GI	none	Score	.41
Exons	2982..3413, 3455..3583, 3687..3977, 4103..4111		

Seq. No.	45612	Seq. ID	OJ000301_14.0330.C6
Gene No.	96525	Strand	-
Start	13674	End	22846
Name	OJ000301_14.0330.C6.o3.tw	Method	TBLASTX:Wheat
Start	1418	End	12946
GI	none	Score	68
Exons	1418..1489, 1556..1630, 1558..1641, 3040..3165, 3042..3224, 11878..11970, 11880..11972, 12505..12588, 12507..12587, 12691..12750, 12692..12748, 12893..12946, 12894..12941		

Seq. No.	45612	Seq. ID	OJ000301_14.0330.C6
Gene No.	96525	Strand	-
Start	13674	End	22846
Name	OJ000301_14.0330.C6.o2.tm	Method	TBLASTX:Maize
Start	3040	End	11972
GI	none	Score	105
Exons	3040..3174, 3042..3233, 3129..3404, 3193..3297, 3303..3404, 11668..11772, 11671..11769, 11672..11803, 11760..11807,		

11840..11890, 11878..11970, 11881..11970, 11883..11972

Seq. No.	45612	Seq. ID	OJ000301_14.0330.C6
Gene No.	96525	Strand	-
Start	13674	End	22846
Name	OJ000301_14.0330.C6.o1.tc	Method	TBLASTX:Cress
Start	3309	End	3878
GI	none	Score	61
Exons	3309..3431, 3309..3431, 3509..3580, 3534..3581, 3678..3878, 3679..3852		

Seq. No.	45612	Seq. ID	OJ000301_14.0330.C6
Gene No.	96525	Strand	-
Start	13674	End	22846
Name	OJ000301_14.0330.C6.o3.tm	Method	TBLASTX:Maize
Start	3485	End	9494
GI	none	Score	124
Exons	3485..3580, 3505..3579, 3684..3860, 3685..3843, 3759..3845, 9159..9239, 9271..9321, 9279..9314, 9401..9421, 9402..9422, 9429..9494, 9444..9494		

Seq. No.	45612	Seq. ID	OJ000301_14.0330.C6
Gene No.	96525	Strand	-
Start	13674	End	22846
Name	OJ000301_14.0330.C6.o1.tm	Method	TBLASTX:Maize
Start	9530	End	10488
GI	none	Score	59
Exons	9530..9625, 9618..9830, 9623..9811, 9862..10314, 9864..10295, 10306..10431, 10462..10488		

Seq. No.	45612	Seq. ID	OJ000301_14.0330.C6
Gene No.	96525	Strand	-
Start	13674	End	22846
Name	OJ000301_14.0330.C6.o4.tw	Method	TBLASTX:Wheat
Start	9687	End	9972
GI	none	Score	121
Exons	9687..9836, 9847..9972, 9849..9956		

Seq. No.	45612	Seq. ID	OJ000301_14.0330.C6
Gene No.	96525	Strand	-
Start	13674	End	22846
Name	OJ000301_14.0330.C6.o2.tw	Method	TBLASTX:Wheat
Start	10306	End	10773
GI	none	Score	273
Exons	10306..10668, 10317..10652, 10345..10656, 10675..10773		

Seq. No.	45612	Seq. ID	OJ000301_14.0330.C6
Gene No.	96525	Strand	-
Start	13674	End	22846
Name	OJ000301_14.0330.C6.o4.tm	Method	TBLASTX:Maize
Start	12893	End	13106
GI	none	Score	199
Exons	12893..13066, 12894..13106		

Seq. No.	45612	Seq. ID	OJ000301_14.0330.C6
Gene No.	96525	Strand	-
Start	13674	End	22846

Name	OJ000301_14.0330.C6.o4.gs	Method	GENSCAN
Start	13674	End	22562
GI	none	Score	.51
Exons	13674..13783, 14706..14844, 14944..15034, 15504..15677, 15766..16223, 16320..16498, 16666..16858, 16950..17144, 17212..17822, 17869..18268, 19080..19146, 19496..19819, 19886..19907, 20631..20768, 21328..21373, 21829..22562		
Seq. No.	45612	Seq. ID	OJ000301_14.0330.C6
Gene No.	96525	Strand	-
Start	13674	End	22846
Name	OJ000301_14.0330.C6.o7.np	Method	AAT/NAP
Start	14686	End	18349
GI	4680204	Score	963
Exons	14686..14882, 15279..15414, 15504..15677, 15766..16858, 16950..18349		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		
Seq. No.	45612	Seq. ID	OJ000301_14.0330.C6
Gene No.	96525	Strand	-
Start	13674	End	22846
Name	OJ000301_14.0330.C6.o1.tw	Method	TBLASTX:Wheat
Start	17329	End	17730
GI	none	Score	56
Exons	17329..17499, 17330..17446, 17489..17629, 17494..17730, 17536..17730		
Seq. No.	45612	Seq. ID	OJ000301_14.0330.C6
Gene No.	96525	Strand	-
Start	13674	End	22846
Name	OJ000301_14.0330.C6.o10.np	Method	AAT/NAP
Start	21308	End	22846
GI	6907087	Score	451
Exons	21308..21404, 21945..22846		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	45613	Seq. ID	OJ000301_14.0330.C7
Gene No.	96526	Strand	-
Start	615	End	1517
Name	OJ000301_14.0330.C7.o1.gs	Method	GENSCAN
Start	615	End	1448
GI	none	Score	.95
Exons	615..887, 951..1234, 1334..1448		
Seq. No.	45613	Seq. ID	OJ000301_14.0330.C7
Gene No.	96526	Strand	-
Start	615	End	1517
Name	OJ000301_14.0330.C7.o1.np	Method	AAT/NAP
Start	636	End	1517
GI	4680203	Score	801
Exons	636..1517		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		
Seq. No.	45613	Seq. ID	OJ000301_14.0330.C7
Gene No.	96526	Strand	-

Start	615	End	1517
Name	OJ000301_14.0330.C7.o1.tw	Method	TBLASTX:Wheat
Start	690	End	1517
GI	none	Score	53
Exons	690..782, 691..756, 707..778, 783..851, 799..852, 856..954, 857..973, 858..974, 865..1005, 876..1004, 934..1047, 984..1043, 1049..1114, 1050..1091, 1060..1095, 1098..1517, 1101..1508, 1363..1515		

Seq. No.	45613	Seq. ID	OJ000301_14.0330.C7
Gene No.	96526	Strand	-
Start	615	End	1517
Name	OJ000301_14.0330.C7.o1.tc	Method	TBLASTX:Cress
Start	1257	End	1517
GI	none	Score	105
Exons	1257..1508, 1257..1517, 1363..1515		

Seq. No.	45614	Seq. ID	OJ000301_14.0330.C8
Gene No.	96527	Strand	+
Start	9430	End	9814
Name	OJ000301_14.0330.C8.o3.gp	Method	AAT/GAP
Start	9430	End	9814
GI	2312718	Score	631
Exons	9430..9814		

GI Descrip. 4512233/dbj|AB014743.1|AB014743 1.0e-176 Oryza sativa copia-type retrotransposon RIRE7 DNA, partial sequence

Seq. No.	45614	Seq. ID	OJ000301_14.0330.C8
Gene No.	96528	Strand	+
Start	9989	End	10445
Name	OJ000301_14.0330.C8.o4.gp	Method	AAT/GAP
Start	9989	End	10445
GI	25792_1.R1084	Score	899
Exons	9989..10445		

GI Descrip. '4512233/dbj|AB014743.1|AB014743 0.0e+00 Oryza sativa copia-type retrotransposon RIRE7 DNA, partial sequence'

Seq. No.	45614	Seq. ID	OJ000301_14.0330.C8
Gene No.	96529	Strand	+
Start	11467	End	14237
Name	OJ000301_14.0330.C8.o2.np	Method	AAT/NAP
Start	11467	End	14237
GI	6705984	Score	4707
Exons	11467..14237		

GI Descrip. (AB033235) gag-pol polyprotein [Oryza sativa]

Seq. No.	45614	Seq. ID	OJ000301_14.0330.C8
Gene No.	96530	Strand	-
Start	1	End	8470
Name	OJ000301_14.0330.C8.o1.gp	Method	AAT/GAP
Start	1	End	1233
GI	342_1.R1084	Score	1942
Exons	1..1233		

GI Descrip. '4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'

Seq. No.	45614	Seq. ID	OJ000301_14.0330.C8
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